



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D130-794-023
Job Sheet 170399



Part No: D130-794-023

Job Qty: 1 ea

Part Name: Auxiliary Fuel Tank Provisions



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 1/16/18

Job Tracking No:

Due Date: 3/23/18

Created By: Mario Poulin

Type: SOLD

Description:

Note: DWG REV G SHEETS 33-35 IPP Rev:A 10.05.20 as per ECN10-562 DD verf: IPP Rev:B 11.01.13 fixe qty for AN525-832R6 DD verf: EC IPP REV:C 12.03.08 ECN 12-539 DD VERF:EC IPP REV:D 12.04.26 ECN 12-571 DD VERF:EC IPP REV:E 13.10.02 ECN 13-645(CHG003) DD VERF:EC

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	3/23/18	3/23/18	0.00	0.00	Start Up Stores/Pkg-2	54	FEB 07 2018 WK
110	Packaging	1 pcs	3/23/18	3/23/18	0.00	0.00	Packaging1-1		
120	QC	1 pcs	3/23/18	3/23/18	0.00	0.00	QC4		Smrs
125	DC	1 pcs	3/23/18	3/23/18	0.00	0.00	DC		
130	Packaging	1 pcs	3/23/18	3/23/18	0.00	0.00	Packaging3-1	DAS	Smrs
140	QC21-FG	1 Ea	3/23/18	3/23/18	0.00	0.00	QC21	21 9-80	APR 11 2018 PROCD

Part Op 125 - Photocopy bluefile & type labels per PPPD130-794-023 CHG004

Descriptions: 130 - Identify and pack for shipping as per PPPD130-794-023 Location: _____ PPP Rev: _____

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	107-943	1	1	0	0
	107-964	1	1	0	0
	107-978	1	1	0	0
	143-203	1	355	0	0
	143-204	1	11	0	0
	143-207	1	6	0	0
	143-208	1	7	0	0
	143-217	5	618	0	0
	143-219	5	28	0	0
	2000-6S	1	12	0	0
	2000-8S	2	0	0	0
	MTA 1060 444-2556	1	0	0	0
	AN3-4A	2	451	0	0
	AN4-5A	2	139	0	0
	AN4-6A	2	631	0	0
	AN525-10R6	4	310	0	0
	AN525-832R6	9	60	0	0
	AN5800-1	1	4	0	0
	AN815-6D	2	13	0	0
	AN832-6D	1	5	0	0
	AN924-6D	2	7	0	0
	AN929-6D	1	20	0	0
	AN970-3	2	139	0	0
	D1-205	1	5	0	0
	D3997-13	1	7	0	0

WORK ORDER NON-CONFORMANCE / UPDATE



QA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Cross tube ☐ Water Jet ☐ Engineering ☐ Machining ☐ Small Fab ☐ Prod. Eng. Coord. ☐ Quality ☐ Thermoforming ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐ Large Fab ☐ Composite ☐ Supplier ☐			
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Date :	Step #:	QTY Effective :	MRB (QSI042) Approval
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Description Work Order Deviation	Disposition

DART AEROSPACE

Container No: S052890

Part: D130 - 794 - 023

Job No: 170399

Serial No/ Batch: S052890

Revision: _____

Inspector: _____

Date: 03/20/18

Supervisor
Verification

Coordinator
Approval

Dart Aerospace Ltd.
1320 Aberdeen Street
Hawkesbury, ON K6A 1K7
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Email: sales@dartaero.com
www.dartaerospace.com

Root Cause		FAULT CATEGORY	
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐
		Wrong ☐ Out of Sequence ☐ Off-set ☐ Mis-labeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____			

	D3997-15	1	2	0	0
	D3997-19	1	4	0	0
	D3997-21	1	7	0	0
	D3997-23	1	7	0	0
	D3997-27	1	11	0	0
	D3997-3	1	11	0	0
	D3997-31	1	7	0	0
	D3997-33	1	7	0	0
	D3997-35	1	7	0	0
	D3997-37	1	7	0	0
	D3997-39	1	6	0	0
	D3997-41	1	7	0	0
	D3997-7	1	7	0	0
	D3997-9	1	7	0	0
	D4001-3	1	0	0	0
	D4002-5	1	0	0	0
	D4002-7	1	2	0	0
	D4003-047	1	0	0	0
	D4003-049	1	4	0	0
	D4003-11	1	0	0	0
	D4004-041	1	3	0	0
	D4004-043	1	1	0	0
	D4004-11	1	1	0	0
	D4004-5	1	0	0	0
	D4004-7	1	13	0	0
	D4005-041	1	5	0	0
	D4005-1	1	0	0	0
	D4005-11	1	7	0	0
	D4005-3	1	1	0	0
	D4005-5	1	6	0	0
	D4005-7	4	8	0	0
	D4005-9	1	0	0	0
	D4006-041	1	2	0	0
	D4007-1	1	3	0	0
	D4007-3	1	6	0	0
	D4007-5	1	9	0	0
	D4008-043	1	0	0	0
	D4009-041	2	0	0	0
	D4022-041	1	0	0	0
	D4022-3	1	0	0	0
	D4024-041	1	2	0	0
	D4026-041	1	0	0	0
	D4027-041	2	6	0	0
	D4027-043	1	2	0	0
	D4063-1	1	2	0	0
	D4063-3	1	1	0	0
	D8-603	1	6	0	0
	MS21042-08	2	0	0	0
	MS21042-3	12	600	0	0
	MS21044N04	4	21	0	0
	MS21059L08	4	291	0	0
	MS21919-WDG6	1	8	0	0
	MS21919-WDG8	2	118	0	0
	MS21919-WDG9	1	54	0	0
	MS24694-S50	3	127	0	0
	MS29512-06	2	23	0	0
	MS35058-23	1	5	0	0
	MS35206-217	4	844	0	0
	MS35207-264	6	58	0	0
	MS35207-267	1	86	0	0
	NAS1149D0332J	7	496	0	0
	NAS1149D0963J	2	38	0	0
	NAS1149F0363P	3	294	0	0
	NAS1149F0463P	2	184	0	0
	NAS1149FN416P	4	80	0	0
	NAS1149FN832P	2	6,714	0	0
	NAS1474A08	3	10	0	0
	NAS43DD3-32N	1	17	0	0

Part Specifications

QA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					



Dart Aerospace Ltd.
1270 Aberdeen St
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K6A 1K7
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Master Unit 000433

Tel (613) 632-5200

Containers on Master Unit 000433				
Serial No	Part No	Customer Part No	Status	Quantity
FM137438	107-943		Allocated	1
FM137616	107-964		Allocated	1
FM137616-78	107-978		Allocated	1
S040269	143-203		Allocated	1
S040260	143-204		Allocated	1
S040259	143-207		Allocated	1
S040257	143-208		Allocated	1
S040256	143-217		Allocated	5
S040253	143-219		Allocated	5
S040251	2000-6S		Allocated	1
S040250	2000-8S		Allocated	2
S040240	AN3-4A		Allocated	2
S040225	AN4-5A		Allocated	2
S040216	AN4-6A	AN4-6A	Allocated	2
S040215	AN525-10R6		Allocated	4
S040214	AN525-832R6		Allocated	9
S040213	AN5800-1		Allocated	1
S040212	AN815-6D		Allocated	2
S006340	AN832-6D		Allocated	1
S038608	AN924-6D		Allocated	2
S038603	AN929-6D		Allocated	1
S038602	AN970-3		Allocated	2
S038599	D1-205		Allocated	1
F159147	D3997-13		Allocated	1
S038598	D3997-15		Allocated	1
S038597	D3997-19		Allocated	1
F159149	D3997-21		Allocated	1
F159150	D3997-23		Allocated	1
F159151	D3997-31		Allocated	1
S038587	D3997-33		Allocated	1
S038581	D3997-35		Allocated	1
S038578	D3997-37		Allocated	1
S038577	D3997-39		Allocated	1
S038574	D3997-41		Allocated	1
S038573	D3997-7		Allocated	1
S038572	D3997-9		Allocated	1
S038570	D4001-3		Allocated	1
S038569	D4002-5	D4002-5	Allocated	1
S030529	D4002-7	D4002-7	Allocated	1
S038567	D4003-047	D4003-047	Allocated	1
S038566	D4003-049		Allocated	1
S038564	D4003-11		Allocated	1
S038563	D4004-041		Allocated	1
S010739	D4004-043		Allocated	1
F163348	D4004-11		Allocated	1
S038561	D4004-7		Allocated	1

S038560	D4005-041		Allocated	1
S038559	D4005-11		Allocated	1
F83136	D4005-3		Allocated	1
S038558	D4005-5		Allocated	1
S038556	D4005-7		Allocated	4
S038555	D4006-041		Allocated	1
S038554	D4007-1		Allocated	1
S038553	D4007-3		Allocated	1
S038545	D4007-5		Allocated	1
S038544	D4009-041		Allocated	2
S038543	D4022-3		Allocated	1
S038542	D4024-041		Allocated	1
S038540	D4027-041		Allocated	2
S038539	D4027-043		Allocated	1
S038535	D4063-1	D4063-1	Allocated	1
F163241	D4063-3	D4063-3	Allocated	1
S038533	D8-603		Allocated	1
S038532	MS21042-3	MS21042-3	Allocated	12
S038531	MS21042L08		Allocated	2
S038530	MS21044N04		Allocated	4
S038520	MS21059L08		Allocated	4
S038517	MS21919-WDG6		Allocated	1
S038516	MS21919-WDG8		Allocated	2
S038514	MS21919-WDG9		Allocated	1
S038513	MS24694-S50		Allocated	3
S038512	MS29512-06		Allocated	2
Fm137371.0	MS35058-23		Allocated	1
S038511	MS35206-217		Allocated	4
S038510	MS35207-264		Allocated	6
S038508	MS35207-267		Allocated	1
Fm135998.0	MTA106D		Allocated	1
S038501	NAS1149D0332J	NAS1149D0332J	Allocated	7
S038499	NAS1149D0963J		Allocated	2
S038497	NAS1149F0363P		Allocated	3
S038495	NAS1149F0463P		Allocated	2
S038488	NAS1149FN416P		Allocated	4
S038487	NAS1149FN832P		Allocated	2
S038486	NAS1474A08		Allocated	3
S038485	NAS43DD3-32N		Allocated	1

D4008-0-13 5041264

D4004-5 5055078

D9997-3 5058398



Dart Aerospace Ltd.
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Tel (613) 632-5200

Container View (Active) - Master Unit Containers

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
000433	FM137438	107-943	Connector Plug		Start Up Stores/Pkg-2	1
000433	FM137616	107-964	Connector Receptacle		Start Up Stores/Pkg-2	1
000433	FM137616-78	107-978	Connector Backshell		Start Up Stores/Pkg-2	1
000433	S040269	143-203	Plug Housing	F122018	Start Up Stores/Pkg-2	1
000433	S040260	143-204	Receptacle Housing	FM136035	Start Up Stores/Pkg-2	1
000433	S040259	143-207	Plug	FM137370	Start Up Stores/Pkg-2	1
000433	S040257	143-208	Receptacle	Fm137370.90	Start Up Stores/Pkg-2	1
000433	S040256	143-217	Crimp Socket	F115459	Start Up Stores/Pkg-2	5
000433	S040253	143-219	Crimp Pin	FM137942	Start Up Stores/Pkg-2	5
000433	S040251	2000-6S	Hose Clamp	FM128880	Start Up Stores/Pkg-2	1
000433	S040250	2000-8S	Hose Clamp	S034045	Start Up Stores/Pkg-2	2
000433	S040240	AN3-4A	Bolt	FM138260	Start Up Stores/Pkg-2	2
000433	S040225	AN4-5A	Bolt	Fm137371.80	Start Up Stores/Pkg-2	2
000433	S040216	AN4-6A	Bolt	S019399	Start Up Stores/Pkg-2	2
000433	S040215	AN525-10R6	Screw	FM137307	Start Up Stores/Pkg-2	4
000433	S040214	AN525-832R6	Screw	FM138084-4	Start Up Stores/Pkg-2	9
000433	S040213	AN5800-1	Placard Holder	Fm137963.80	Start Up Stores/Pkg-2	1
000433	S040212	AN815-6D	Union M Flare	S019415	Start Up Stores/Pkg-2	2
000433	S006340	AN832-6D	Bulkhead Fitting		Start Up Stores/Pkg-2	1
000433	S038608	AN924-6D	Nut	Fm137412.0	Start Up Stores/Pkg-2	2
000433	S038603	AN929-6D	Nut	FM129820	Start Up Stores/Pkg-2	1
000433	S038599	D1-205	ECF Fuse, 2.5 amps (HA21-2U5)	FM129793	Start Up Stores/Pkg-2	1
000433	F159147	D3997-13	Placard		Start Up Stores/Pkg-2	1
000433	S038598	D3997-15	Placard	F159148	Start Up Stores/Pkg-2	1
000433	S038597	D3997-19	Placard	F160133	Start Up Stores/Pkg-2	1
000433	F159149	D3997-21	Placard		Start Up Stores/Pkg-2	1
000433	F159150	D3997-23	Placard		Start Up Stores/Pkg-2	1
000433	F159151	D3997-31	Placard		Start Up Stores/Pkg-2	1
000433	S038587	D3997-33	Placard	S023168	Start Up Stores/Pkg-2	1
000433	S038581	D3997-35	Placard	S023149	Start Up Stores/Pkg-2	1
000433	S038578	D3997-37	Placard	S023131	Start Up Stores/Pkg-2	1
000433	S038577	D3997-39	Placard	F163258	Start Up Stores/Pkg-2	1
000433	S038574	D3997-41	Placard	S023197	Start Up Stores/Pkg-2	1
000433	S038573	D3997-7	Placard	F162538	Start Up Stores/Pkg-2	1
000433	S038572	D3997-9	Placard	S023132	Start Up Stores/Pkg-2	1
000433	S038570	D4001-3	Fitting	S034257	Start Up Stores/Pkg-2	1
000433	S038569	D4002-5	Fuel Hose From Auxiliary Tank	S036123	Start Up Stores/Pkg-2	1
000433	S030529	D4002-7	Fuel Supply Hose	S032183	Start Up Stores/Pkg-2	1
000433	S038567	D4003-047	Fuel Pump Inlet Tube	S033737	Start Up Stores/Pkg-2	1
000433	S038566	D4003-049	Tank Vent Line Assembly	F163939	Start Up Stores/Pkg-2	1
000433	S038564	D4003-11	Vent Pipe - Tank	S033455	Start Up Stores/Pkg-2	1
000433	S038563	D4004-041	Side Restraint Angle	F163975	Start Up Stores/Pkg-2	1
000433	S010739	D4004-043	Side Restraint Angle And Tie Down Point	S012852	Start Up Stores/Pkg-2	1
000433	F163348	D4004-11	Top Strap Attachment Bracket		Start Up Stores/Pkg-2	1
000433	S038561	D4004-7	Hose Clip	F122491	Start Up Stores/Pkg-2	1
000433	S038560	D4005-041	Fwd Floor Gutter	F143716	Start Up Stores/Pkg-2	1
000433	S038559	D4005-11	Finishing Strip	F160443	Start Up Stores/Pkg-2	1
000433	F83136	D4005-3	Fwd Restaint Beam		Start Up Stores/Pkg-2	1
000433	S038558	D4005-5	Angle	F106966	Start Up Stores/Pkg-2	1

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
000433	S038556	D4005-7	Angle	F83132	Start Up Stores/Pkg-2	4
000433	S048832	D4005-9	Angle	S041275	ST067	1
000433	S038555	D4006-041	Tank Top Support Assembly	F163526	Start Up Stores/Pkg-2	1
000433	S038554	D4007-1	Top Support Bracket	F130312	Start Up Stores/Pkg-2	1
000433	S038553	D4007-3	Support	F160541	Start Up Stores/Pkg-2	1
000433	S038545	D4007-5	Packer	F83131	Start Up Stores/Pkg-2	1
000433	S038544	D4009-041	Bonding Braid	S037221	Start Up Stores/Pkg-2	2
000433	S038543	D4022-3	Fuel Pump Mounting Bracket	S036033	Start Up Stores/Pkg-2	1
000433	S038542	D4024-041	Restraint Strap	F163259	Start Up Stores/Pkg-2	1
000433	S038540	D4027-041	Hose Clamp Assembly	F112716	Start Up Stores/Pkg-2	2
000433	S038539	D4027-043	Hose Clamp Assembly	F164959	Start Up Stores/Pkg-2	1
000433	S038535	D4063-1	Drain Hose	F158452	Start Up Stores/Pkg-2	1
000433	F163241	D4063-3	Vent Hose		Start Up Stores/Pkg-2	1
000433	S038533	D8-603	ECF Fuse, 6.3 amps (HA23-6U3)	FM129648	Start Up Stores/Pkg-2	1
000433	S038532	MS21042-3	Nut	S027548	Start Up Stores/Pkg-2	12
000433	S038531	MS21042L08	Nut	S016879	Start Up Stores/Pkg-2	2
000433	S038530	MS21044N04	Nut	Fm137544.80	Start Up Stores/Pkg-2	4
000433	S038520	MS21059L08	Nut	S019317	Start Up Stores/Pkg-2	4
000433	S038517	MS21919-WDG6	Clamp	FM129909-40	Start Up Stores/Pkg-2	1
000433	S038516	MS21919-WDG8	Clamp	S005142	Start Up Stores/Pkg-2	2
000433	S038514	MS21919-WDG9	Clamp	FM137736	Start Up Stores/Pkg-2	1
000433	S038513	MS24694-S50	Screw	S034410	Start Up Stores/Pkg-2	3
000433	S038512	MS29512-06	O-Ring	S027734	Start Up Stores/Pkg-2	2
000433	Fm137371.0	MS35058-23	Switch		Start Up Stores/Pkg-2	1
000433	S038511	MS35206-217	Screw	FM133799	Start Up Stores/Pkg-2	4
000433	S038510	MS35207-264	Screw	FM134573-6	Start Up Stores/Pkg-2	6
000433	S038508	MS35207-267	Screw	FM127305-20	Start Up Stores/Pkg-2	1
000433	Fm135998.0	MTA106D	Gauge Master Switch		Start Up Stores/Pkg-2	1
000433	S038501	NAS1149D0332J	Washer	S020606	Start Up Stores/Pkg-2	7
000433	S038499	NAS1149D0963J	Washer	FM135671-15	Start Up Stores/Pkg-2	2
000433	S038497	NAS1149F0363P	Washer	FM137544-25	Start Up Stores/Pkg-2	3
000433	S038495	NAS1149F0463P	Washer	FM127832-25	Start Up Stores/Pkg-2	2
000433	S038488	NAS1149FN416P	Washer	F125445-25	Start Up Stores/Pkg-2	4
000433	S038487	NAS1149FN832P	Washer	S020604	Start Up Stores/Pkg-2	2
000433	S038486	NAS1474A08	Nut,Self Locking	FM137963	Start Up Stores/Pkg-2	3
000433	S038485	NAS43DD3-32N	Spacer	F125445	Start Up Stores/Pkg-2	1

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

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K6A 1K7
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Tel (613) 632-5200

Container View (Active) - Master Unit Containers

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
000433	FM137438	107-943	Connector Plug		Start Up Stores/Pkg-2	1
000433	FM137616	107-964	Connector Receptacle		Start Up Stores/Pkg-2	1
000433	FM137616-78	107-978	Connector Backshell		Start Up Stores/Pkg-2	1
000433	S040269	143-203	Plug Housing	F122018	Start Up Stores/Pkg-2	1
000433	S040260	143-204	Receptacle Housing	FM136035	Start Up Stores/Pkg-2	1
000433	S040259	143-207	Plug	FM137370	Start Up Stores/Pkg-2	1
000433	S040257	143-208	Receptacle	Fm137370.90	Start Up Stores/Pkg-2	1
000433	S040256	143-217	Crimp Socket	F115459	Start Up Stores/Pkg-2	5
000433	S040253	143-219	Crimp Pin	FM137942	Start Up Stores/Pkg-2	5
000433	S040251	2000-6S	Hose Clamp	FM128880	Start Up Stores/Pkg-2	1
000433	S040250	2000-8S	Hose Clamp	S034045	Start Up Stores/Pkg-2	2
000433	S040240	AN3-4A	Bolt	FM138260	Start Up Stores/Pkg-2	2
000433	S040225	AN4-5A	Bolt	Fm137371.80	Start Up Stores/Pkg-2	2
000433	S040216	AN4-6A	Bolt	S019399	Start Up Stores/Pkg-2	2
000433	S040215	AN525-10R6	Screw	FM137307	Start Up Stores/Pkg-2	4
000433	S040214	AN525-832R6	Screw	FM138084-4	Start Up Stores/Pkg-2	9
000433	S040213	AN5800-1	Placard Holder	Fm137963.80	Start Up Stores/Pkg-2	1
000433	S040212	AN815-6D	Union M Flare	S019415	Start Up Stores/Pkg-2	2
000433	S006340	AN832-6D	Bulkhead Fitting		Start Up Stores/Pkg-2	1
000433	S038608	AN924-6D	Nut	Fm137412.0	Start Up Stores/Pkg-2	2
000433	S038603	AN929-6D	Nut	FM129820	Start Up Stores/Pkg-2	1
000433	S038599	D1-205	ECF Fuse, 2.5 amps (HA21-2U5)	FM129793	Start Up Stores/Pkg-2	1
000433	F159147	D3997-13	Placard		Start Up Stores/Pkg-2	1
000433	S038598	D3997-15	Placard	F159148	Start Up Stores/Pkg-2	1
000433	S038597	D3997-19	Placard	F160133	Start Up Stores/Pkg-2	1
000433	F159149	D3997-21	Placard		Start Up Stores/Pkg-2	1
000433	F159150	D3997-23	Placard		Start Up Stores/Pkg-2	1
000433	S051732	D3997-27	Conversion Chart Placard	S050557	ST066	1
000433	F159151	D3997-31	Placard		Start Up Stores/Pkg-2	1
000433	S038587	D3997-33	Placard	S023168	Start Up Stores/Pkg-2	1
000433	S038581	D3997-35	Placard	S023149	Start Up Stores/Pkg-2	1
000433	S038578	D3997-37	Placard	S023131	Start Up Stores/Pkg-2	1
000433	S038577	D3997-39	Placard	F163258	Start Up Stores/Pkg-2	1
000433	S038574	D3997-41	Placard	S023197	Start Up Stores/Pkg-2	1
000433	S038573	D3997-7	Placard	F162538	Start Up Stores/Pkg-2	1
000433	S038572	D3997-9	Placard	S023132	Start Up Stores/Pkg-2	1
000433	S038570	D4001-3	Fitting	S034257	Start Up Stores/Pkg-2	1
000433	S038569	D4002-5	Fuel Hose From Auxiliary Tank	S036123	Start Up Stores/Pkg-2	1
000433	S030529	D4002-7	Fuel Supply Hose	S032183	Start Up Stores/Pkg-2	1
000433	S038567	D4003-047	Fuel Pump Inlet Tube	S033737	Start Up Stores/Pkg-2	1
000433	S038566	D4003-049	Tank Vent Line Assembly	F163939	Start Up Stores/Pkg-2	1
000433	S038564	D4003-11	Vent Pipe - Tank	S033455	Start Up Stores/Pkg-2	1
000433	S038563	D4004-041	Side Restraint Angle	F163975	Start Up Stores/Pkg-2	1
000433	S010739	D4004-043	Side Restraint Angle And Tie Down Point	S012852	Start Up Stores/Pkg-2	1
000433	F163348	D4004-11	Top Strap Attachment Bracket		Start Up Stores/Pkg-2	1
000433	S038561	D4004-7	Hose Clip	F122491	Start Up Stores/Pkg-2	1
000433	S038560	D4005-041	Fwd Floor Gutter	F143716	Start Up Stores/Pkg-2	1
000433	S051563	D4005-1	Rear Restraint Angle Gutter	S041981	ST241	1
000433	S038559	D4005-11	Finishing Strip	F160443	Start Up Stores/Pkg-2	1

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
000433	F83136	D4005-3	Fwd Restaint Beam		Start Up Stores/Pkg-2	1
000433	S038558	D4005-5	Angle	F106966	Start Up Stores/Pkg-2	1
000433	S038556	D4005-7	Angle	F83132	Start Up Stores/Pkg-2	4
000433	S048832	D4005-9	Angle	S041275	ST067	1
000433	S038555	D4006-041	Tank Top Support Assembly	F163526	Start Up Stores/Pkg-2	1
000433	S038554	D4007-1	Top Support Bracket	F130312	Start Up Stores/Pkg-2	1
000433	S038553	D4007-3	Support	F160541	Start Up Stores/Pkg-2	1
000433	S038545	D4007-5	Packer	F83131	Start Up Stores/Pkg-2	1
000433	S038544	D4009-041	Bonding Braid	S037221	Start Up Stores/Pkg-2	2
000433	S038543	D4022-3	Fuel Pump Mounting Bracket	S036033	Start Up Stores/Pkg-2	1
000433	S038542	D4024-041	Restraint Strap	F163259	Start Up Stores/Pkg-2	1
000433	S038540	D4027-041	Hose Clamp Assembly	F112716	Start Up Stores/Pkg-2	2
000433	S038539	D4027-043	Hose Clamp Assembly	F164959	Start Up Stores/Pkg-2	1
000433	S038535	D4063-1	Drain Hose	F158452	Start Up Stores/Pkg-2	1
000433	F163241	D4063-3	Vent Hose		Start Up Stores/Pkg-2	1
000433	S038533	D8-603	ECF Fuse, 6.3 amps (HA23-6U3)	FM129648	Start Up Stores/Pkg-2	1
000433	S038532	MS21042-3	Nut	S027548	Start Up Stores/Pkg-2	12
000433	S038531	MS21042L08	Nut	S016879	Start Up Stores/Pkg-2	2
000433	S038530	MS21044N04	Nut	Fm137544.80	Start Up Stores/Pkg-2	4
000433	S038520	MS21059L08	Nut	S019317	Start Up Stores/Pkg-2	4
000433	S038517	MS21919-WDG6	Clamp	FM129909-40	Start Up Stores/Pkg-2	1
000433	S038516	MS21919-WDG8	Clamp	S005142	Start Up Stores/Pkg-2	2
000433	S038514	MS21919-WDG9	Clamp	FM137736	Start Up Stores/Pkg-2	1
000433	S038513	MS24694-S50	Screw	S034410	Start Up Stores/Pkg-2	3
000433	S038512	MS29512-06	O-Ring	S027734	Start Up Stores/Pkg-2	2
000433	Fm137371.0	MS35058-23	Switch		Start Up Stores/Pkg-2	1
000433	S038511	MS35206-217	Screw	FM133799	Start Up Stores/Pkg-2	4
000433	S038510	MS35207-264	Screw	FM134573-6	Start Up Stores/Pkg-2	6
000433	S038508	MS35207-267	Screw	FM127305-20	Start Up Stores/Pkg-2	1
000433	Fm135998.0	MTA106D	Gauge Master Switch		Start Up Stores/Pkg-2	1
000433	S038501	NAS1149D0332J	Washer	S020606	Start Up Stores/Pkg-2	7
000433	S038499	NAS1149D0963J	Washer	FM135671-15	Start Up Stores/Pkg-2	2
000433	S038497	NAS1149F0363P	Washer	FM137544-25	Start Up Stores/Pkg-2	3
000433	S038495	NAS1149F0463P	Washer	FM127832-25	Start Up Stores/Pkg-2	2
000433	S038488	NAS1149FN416P	Washer	F125445-25	Start Up Stores/Pkg-2	4
000433	S038487	NAS1149FN832P	Washer	S020604	Start Up Stores/Pkg-2	2
000433	S038486	NAS1474A08	Nut,Self Locking	FM137963	Start Up Stores/Pkg-2	3
000433	S038485	NAS43DD3-32N	Spacer	F125445	Start Up Stores/Pkg-2	1

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

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Container View (Active) - Master Unit Containers

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
000433	FM137438	107-943	Connector Plug		Start Up Stores/Pkg-2	1
000433	FM137616	107-964	Connector Receptacle		Start Up Stores/Pkg-2	1
000433	FM137616-78	107-978	Connector Backshell		Start Up Stores/Pkg-2	1
000433	S040269	143-203	Plug Housing	F122018	Start Up Stores/Pkg-2	1
000433	S040260	143-204	Receptacle Housing	FM136035	Start Up Stores/Pkg-2	1
000433	S040259	143-207	Plug	FM137370	Start Up Stores/Pkg-2	1
000433	S040257	143-208	Receptacle	Fm137370.90	Start Up Stores/Pkg-2	1
000433	S040256	143-217	Crimp Socket	F115459	Start Up Stores/Pkg-2	5
000433	S040253	143-219	Crimp Pin	FM137942	Start Up Stores/Pkg-2	5
000433	S040251	2000-6S	Hose Clamp	FM128880	Start Up Stores/Pkg-2	1
000433	S040250	2000-8S	Hose Clamp	S034045	Start Up Stores/Pkg-2	2
000433	S040240	AN3-4A	Bolt	FM138260	Start Up Stores/Pkg-2	2
000433	S040225	AN4-5A	Bolt	Fm137371.80	Start Up Stores/Pkg-2	2
000433	S040216	AN4-6A	Bolt	S019399	Start Up Stores/Pkg-2	2
000433	S040215	AN525-10R6	Screw	FM137307	Start Up Stores/Pkg-2	4
000433	S040214	AN525-832R6	Screw	FM138084-4	Start Up Stores/Pkg-2	9
000433	S040213	AN5800-1	Placard Holder	Fm137963.80	Start Up Stores/Pkg-2	1
000433	S040212	AN815-6D	Union M Flare	S019415	Start Up Stores/Pkg-2	2
000433	S006340	AN832-6D	Bulkhead Fitting		Start Up Stores/Pkg-2	1
000433	S038608	AN924-6D	Nut	Fm137412.0	Start Up Stores/Pkg-2	2
000433	S038603	AN929-6D	Nut	FM129820	Start Up Stores/Pkg-2	1
000433	S038599	D1-205	ECF Fuse, 2.5 amps (HA21-2U5)	FM129793	Start Up Stores/Pkg-2	1
000433	F159147	D3997-13	Placard		Start Up Stores/Pkg-2	1
000433	S038598	D3997-15	Placard	F159148	Start Up Stores/Pkg-2	1
000433	S038597	D3997-19	Placard	F160133	Start Up Stores/Pkg-2	1
000433	F159149	D3997-21	Placard		Start Up Stores/Pkg-2	1
000433	F159150	D3997-23	Placard		Start Up Stores/Pkg-2	1
000433	S051732	D3997-27	Conversion Chart Placard	S050557	Start Up Stores/Pkg-2	1
000433	F159151	D3997-31	Placard		Start Up Stores/Pkg-2	1
000433	S038587	D3997-33	Placard	S023168	Start Up Stores/Pkg-2	1
000433	S038581	D3997-35	Placard	S023149	Start Up Stores/Pkg-2	1
000433	S038578	D3997-37	Placard	S023131	Start Up Stores/Pkg-2	1
000433	S038577	D3997-39	Placard	F163258	Start Up Stores/Pkg-2	1
000433	S038574	D3997-41	Placard	S023197	Start Up Stores/Pkg-2	1
000433	S038573	D3997-7	Placard	F162538	Start Up Stores/Pkg-2	1
000433	S038572	D3997-9	Placard	S023132	Start Up Stores/Pkg-2	1
000433	S038570	D4001-3	Fitting	S034257	Start Up Stores/Pkg-2	1
000433	S038569	D4002-5	Fuel Hose From Auxiliary Tank	S036123	Start Up Stores/Pkg-2	1
000433	S030529	D4002-7	Fuel Supply Hose	S032183	Start Up Stores/Pkg-2	1
000433	S038567	D4003-047	Fuel Pump Inlet Tube	S033737	Start Up Stores/Pkg-2	1
000433	S038566	D4003-049	Tank Vent Line Assembly	F163939	Start Up Stores/Pkg-2	1
000433	S038564	D4003-11	Vent Pipe - Tank	S033455	Start Up Stores/Pkg-2	1
000433	S038563	D4004-041	Side Restraint Angle	F163975	Start Up Stores/Pkg-2	1
000433	S010739	D4004-043	Side Restraint Angle And Tie Down Point	S012852	Start Up Stores/Pkg-2	1
000433	F163348	D4004-11	Top Strap Attachment Bracket		Start Up Stores/Pkg-2	1
000433	S038561	D4004-7	Hose Clip	F122491	Start Up Stores/Pkg-2	1
000433	S038560	D4005-041	Fwd Floor Gutter	F143716	Start Up Stores/Pkg-2	1
000433	S051563	D4005-1	Rear Restraint Angle Gutter	S041981	Start Up Stores/Pkg-2	1
000433	S038559	D4005-11	Finishing Strip	F160443	Start Up Stores/Pkg-2	1

FIX
S0544

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
000433	F83136	D4005-3	Fwd Restaint Beam		Start Up Stores/Pkg-2	1
000433	S038558	D4005-5	Angle	F106966	Start Up Stores/Pkg-2	1
000433	S038556	D4005-7	Angle	F83132	Start Up Stores/Pkg-2	4
000433	S048832	D4005-9	Angle	S041275	ST067	1
000433	S038555	D4006-041	Tank Top Support Assembly	F163526	Start Up Stores/Pkg-2	1
000433	S038554	D4007-1	Top Support Bracket	F130312	Start Up Stores/Pkg-2	1
000433	S038553	D4007-3	Support	F160541	Start Up Stores/Pkg-2	1
000433	S038545	D4007-5	Packer	F83131	Start Up Stores/Pkg-2	1
000433	S038544	D4009-041	Bonding Braid	S037221	Start Up Stores/Pkg-2	2
000433	S051906	D4022-041	Fuel Transfer Pump Assembly	S051902	ST245	1
000433	S038543	D4022-3	Fuel Pump Mounting Bracket	S036033	Start Up Stores/Pkg-2	1
000433	S038542	D4024-041	Restraint Strap	F163259	Start Up Stores/Pkg-2	1
000433	S038540	D4027-041	Hose Clamp Assembly	F112716	Start Up Stores/Pkg-2	2
000433	S038539	D4027-043	Hose Clamp Assembly	F164959	Start Up Stores/Pkg-2	1
000433	S038535	D4063-1	Drain Hose	F158452	Start Up Stores/Pkg-2	1
000433	F163241	D4063-3	Vent Hose		Start Up Stores/Pkg-2	1
000433	S038533	D8-603	ECF Fuse, 6.3 amps (HA23-6U3)	FM129648	Start Up Stores/Pkg-2	1
000433	S038532	MS21042-3	Nut	S027548	Start Up Stores/Pkg-2	12
000433	S038531	MS21042L08	Nut	S016879	Start Up Stores/Pkg-2	2
000433	S038530	MS21044N04	Nut	Fm137544.80	Start Up Stores/Pkg-2	4
000433	S038520	MS21059L08	Nut	S019317	Start Up Stores/Pkg-2	4
000433	S038517	MS21919-WDG6	Clamp	FM129909-40	Start Up Stores/Pkg-2	1
000433	S038516	MS21919-WDG8	Clamp	S005142	Start Up Stores/Pkg-2	2
000433	S038514	MS21919-WDG9	Clamp	FM137736	Start Up Stores/Pkg-2	1
000433	S038513	MS24694-S50	Screw	S034410	Start Up Stores/Pkg-2	3
000433	S038512	MS29512-06	O-Ring	S027734	Start Up Stores/Pkg-2	2
000433	Fm137371.0	MS35058-23	Switch		Start Up Stores/Pkg-2	1
000433	S038511	MS35206-217	Screw	FM133799	Start Up Stores/Pkg-2	4
000433	S038510	MS35207-264	Screw	FM134573-6	Start Up Stores/Pkg-2	6
000433	S038508	MS35207-267	Screw	FM127305-20	Start Up Stores/Pkg-2	1
000433	Fm135998.0	MTA106D	Gauge Master Switch		Start Up Stores/Pkg-2	1
000433	S038501	NAS1149D0332J	Washer	S020606	Start Up Stores/Pkg-2	7
000433	S038499	NAS1149D0963J	Washer	FM135671-15	Start Up Stores/Pkg-2	2
000433	S038497	NAS1149F0363P	Washer	FM137544-25	Start Up Stores/Pkg-2	3
000433	S038495	NAS1149F0463P	Washer	FM127832-25	Start Up Stores/Pkg-2	2
000433	S038488	NAS1149FN416P	Washer	F125445-25	Start Up Stores/Pkg-2	4
000433	S038487	NAS1149FN832P	Washer	S020604	Start Up Stores/Pkg-2	2
000433	S038486	NAS1474A08	Nut,Self Locking	FM137963	Start Up Stores/Pkg-2	3
000433	S038485	NAS43DD3-32N	Spacer	F125445	Start Up Stores/Pkg-2	1

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

D3997-3 S058398 1X
 D4026-041
 D4008-043 S041264 1X
 D4004-5 S055072 1X
 AN970-3 S038602 2X

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D130-794-023
Job Sheet 170399



Part No: D130-794-023

Job Qty: 1 ea

Part Name: Auxiliary Fuel Tank Provisions



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 1/16/18

Job Tracking No:

Due Date: 3/23/18

Created By: Mario Poulin

Type: SOLD

Description:

Note: DWG REV G SHEETS 33-35 IPP Rev:A 10.05.20 as per ECN10-562 DD verf: IPP Rev:B 11.01.13 fixe qty for AN525-832R6 DD verf: EC IPP REV:C 12.03.08 ECN 12-539 DD VERF:EC IPP REV:D 12.04.26 ECN 12-571 DD VERF:EC IPP REV:E 13.10.02 ECN 13-645(CHG003) DD VERF:EC

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		3/23/18	0.00	0.00	Start Up Stores/Pkg-2		Smb
110	Packaging	1 pcs		3/23/18	0.00	0.00	Packaging1-1		
120	QC	1 pcs		3/23/18	0.00	0.00	QC4		Smb
125	DC	1 pcs		3/23/18	0.00	0.00	DC		
130	Packaging	1 pcs		3/23/18	0.00	0.00	Packaging3-1		Smb
140	QC21-FG	1 Ea		3/23/18	0.00	0.00	QC21		

Part Op 125 - Photocopy bluefile & type labels per PPPD130-794-023 CHG004

Descriptions: 130 - Identify and pack for shipping as per PPPD130-794-023 Location: _____

PPP Rev: _____

APR 11 2018 P1002

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
107-943	Connector Plug	1 Ea (1 ea)	90-Start up Operation	
107-964	Connector Receptacle	1 Ea (1 ea)	90-Start up Operation	
107-978	Connector Backshell	1 Ea (1 ea)	90-Start up Operation	
143-203	Plug Housing	1 Ea (1 ea)	90-Start up Operation	
143-204	Receptacle Housing	1 Ea (1 ea)	90-Start up Operation	
143-207	Plug	1 Ea (1 ea)	90-Start up Operation	
143-208	Receptacle	1 Ea (1 ea)	90-Start up Operation	
143-217	Crimp Socket	5 Ea (5 ea)	90-Start up Operation	
143-219	Crimp Pin	5 Ea (5 ea)	90-Start up Operation	
2000-6S	Hose Clamp	1 Ea (1 ea)	90-Start up Operation	
2000-8S	Hose Clamp	2 Ea (2 ea)	90-Start up Operation	
AN3-4A	Bolt	2 Ea (2 ea)	90-Start up Operation	
AN4-5A	Bolt	2 Ea (2 ea)	90-Start up Operation	
AN4-6A	Bolt	2 Ea (2 ea)	90-Start up Operation	
AN525-10R6	Screw	4 Ea (4 ea)	90-Start up Operation	
AN525-832R6	Screw	9 Ea (9 ea)	90-Start up Operation	
AN5800-1	Placard Holder	1 Ea (1 ea)	90-Start up Operation	
AN815-6D	Union M Flare	2 Ea (2 ea)	90-Start up Operation	
AN832-6D	Bulkhead Fitting	1 Ea (1 ea)	90-Start up Operation	
AN924-6D	Nut	2 Ea (2 ea)	90-Start up Operation	

AN929-6D	Nut	1 Ea (1 ea)	90-Start up Operation
AN970-3	Washer	2 Ea (2 ea)	90-Start up Operation
D1-205	ECF Fuse, 2.5 amps (HA21-2U5)	1 Ea (1 ea)	90-Start up Operation
D3997-13	Placard	1 Ea (1 ea)	90-Start up Operation
D3997-15	Placard	1 Ea (1 ea)	90-Start up Operation
D3997-19	Placard	1 Ea (1 ea)	90-Start up Operation
D3997-21	Placard	1 Ea (1 ea)	90-Start up Operation
D3997-23	Placard	1 Ea (1 ea)	90-Start up Operation
D3997-27	Conversion Chart Placard	1 Ea (1 ea)	90-Start up Operation
D3997-31	Placard	1 Ea (1 ea)	90-Start up Operation
D3997-33	Placard	1 Ea (1 ea)	90-Start up Operation
D3997-35	Placard	1 Ea (1 ea)	90-Start up Operation
D3997-37	Placard	1 Ea (1 ea)	90-Start up Operation
D3997-39	Placard	1 Ea (1 ea)	90-Start up Operation
D3997-41	Placard	1 Ea (1 ea)	90-Start up Operation
D3997-7	Placard	1 Ea (1 ea)	90-Start up Operation
D3997-9	Placard	1 Ea (1 ea)	90-Start up Operation
D4001-3	Fitting	1 Ea (1 ea)	90-Start up Operation
D4002-5	Fuel Hose From Auxiliary Tank	1 Ea (1 ea)	90-Start up Operation
D4002-7	Fuel Supply Hose	1 Ea (1 ea)	90-Start up Operation
D4003-047	Fuel Pump Inlet Tube	1 Ea (1 ea)	90-Start up Operation
D4003-049	Tank Vent Line Assembly	1 Ea (1 ea)	90-Start up Operation
D4003-11	Vent Pipe - Tank	1 Ea (1 ea)	90-Start up Operation
D4004-041	Side Restraint Angle	1 Ea (1 ea)	90-Start up Operation
D4004-043	Side Restraint Angle And Tie Down Point	1 Ea (1 ea)	90-Start up Operation
D4004-11	Top Strap Attachment Bracket	1 Ea (1 ea)	90-Start up Operation
D4004-7	Hose Clip	1 Ea (1 ea)	90-Start up Operation
D4005-041	Fwd Floor Gutter	1 Ea (1 ea)	90-Start up Operation
D4005-1	Rear Restraint Angle Gutter	1 Ea (1 ea)	90-Start up Operation
D4005-11	Finishing Strip	1 Ea (1 ea)	90-Start up Operation
D4005-3	Fwd Restaint Beam	1 Ea (1 ea)	90-Start up Operation
D4005-5	Angle	1 Ea (1 ea)	90-Start up Operation
D4005-7	Angle	4 Ea (4 ea)	90-Start up Operation
D4005-9	Angle	1 Ea (1 ea)	90-Start up Operation
D4006-041	Tank Top Support Assembly	1 Ea (1 ea)	90-Start up Operation
D4007-1	Top Support Bracket	1 Ea (1 ea)	90-Start up Operation
D4007-3	Support	1 Ea (1 ea)	90-Start up Operation
D4007-5	Packer	1 Ea (1 ea)	90-Start up Operation
D4009-041	Bonding Braid	2 Ea (2 ea)	90-Start up Operation
D4022-041	Fuel Transfer Pump Assembly	1 Ea (1 ea)	90-Start up Operation
D4022-3	Fuel Pump Mounting Bracket	1 Ea (1 ea)	90-Start up Operation
D4024-041	Restraint Strap	1 Ea (1 ea)	90-Start up Operation
D4027-041	Hose Clamp Assembly	2 Ea (2 ea)	90-Start up Operation
D4027-043	Hose Clamp Assembly	1 Ea (1 ea)	90-Start up Operation
D4063-1	Drain Hose	1 Ea (1 ea)	90-Start up Operation
D4063-3	Vent Hose	1 Ea (1 ea)	90-Start up Operation
D8-603	ECF Fuse, 6.3 amps (HA23-6U3)	1 Ea (1 ea)	90-Start up Operation
MS21042-3	Nut	12 Ea (12 ea)	90-Start up Operation
MS21042L08	Nut	2 Ea (2 ea)	90-Start up Operation
MS21044N04	Nut	4 Ea (4 ea)	90-Start up Operation
MS21059L08	Nut	4 Ea (4 ea)	90-Start up Operation
MS21919-WDG6	Clamp	1 Ea (1 ea)	90-Start up Operation
MS21919-WDG8	Clamp	2 Ea (2 ea)	90-Start up Operation
MS21919-WDG9	Clamp	1 Ea (1 ea)	90-Start up Operation
MS24694-S50	Screw	3 Ea (3 ea)	90-Start up Operation
MS29512-06	O-Ring	2 pcs (2 ea)	90-Start up Operation
MS35058-23	Switch	1 Ea (1 ea)	90-Start up Operation
MS35206-217	Screw	4 Ea (4 ea)	90-Start up Operation
MS35207-264	Screw	6 Ea (6 ea)	90-Start up Operation
MS35207-267	Screw	1 Ea (1 ea)	90-Start up Operation
MTA106D	Gauge Master Switch	1 Ea (1 ea)	90-Start up Operation
NAS1149D0332J	Washer	7 Ea (7 ea)	90-Start up Operation
NAS1149D0963J	Washer	2 Ea (2 ea)	90-Start up Operation

NAS1149F0363P	Washer	3 Ea (3 ea)	90-Start up Operation
NAS1149F0463P	Washer	2 Ea (2 ea)	90-Start up Operation
NAS1149FN416P	Washer	4 Ea (4 ea)	90-Start up Operation
NAS1149FN832P	Washer	2 Ea (2 ea)	90-Start up Operation
NAS1474A08	Nut,Self Locking	3 Ea (3 ea)	90-Start up Operation
NAS43DD3-32N	Spacer	1 Ea (1 ea)	90-Start up Operation
D3997-3	Placard	1 Ea (1 ea)	110-Packaging
D4004-5	Strap Attachment Bracket	1 Ea (1 ea)	110-Packaging
D4008-043	Fuel Pump Splash Guard Assembly	1 Ea (1 ea)	110-Packaging
D4026-041	Fuel Gauge	1 Ea (1 ea)	110-Packaging
03-09-1031	Receptacle Housing	1 pcs (1 ea)	110-Packaging
107-978	Connector Backshell	2 Ea (2 ea)	110-Packaging
143-217	Crimp Socket	3 Ea (3 ea)	110-Packaging
640903-1	Terminal	2 Ea (2 ea)	110-Packaging
D5540-1	Breather Vent	1 Ea (1 ea)	110-Packaging
M24308/1-2F	Connector, D-Sub 15-Pin	1 pcs (1 ea)	110-Packaging
M85049/48-1-2	Backshell, D-Sub 15-Pin	1 pcs (1 ea)	110-Packaging

5054492
~~415449~~ 115449
5055402

5009329

5059449

Job Allocations					
Operation	Component Part	Required	Inventory	Allocated	
90-Start up Operation	107-943	1	4	0	
	107-964	1	4	0	
	107-978	1	4	0	
	143-203	1	354	0	
	143-204	1	10	0	
	143-207	1	5	0	
	143-208	1	6	0	
	143-217	5	613	0	
	143-219	5	20	0	
	2000-6S	1	10	0	
	2000-8S	2	6	0	
	AN3-4A	2	108	0	
	AN4-5A	2	88	0	
	AN4-6A	2	1,466	2	

Allocated Container Detail

Qty	Container No	Location	Init
2	S040216	start up stores/pkg-2	
AN525-10R6		4	264
			4

Allocated Container Detail

Qty	Container No	Location	Init
4	S040215	start up stores/pkg-2	
AN525-832R6		9	113
			0
AN5800-1		1	5
			0
AN815-6D		2	19
			0
AN832-6D		1	5
			0
AN924-6D		2	20
			0
AN929-6D		1	19
			0
AN970-3		2	172
			0
D1-205		1	4
			0
D3997-13		1	6
			0
D3997-15		1	7
			0
D3997-19		1	3
			0

D3997-21	1	6	0
D3997-23	1	6	0
D3997-27	1	11	0
D3997-31	1	6	0
D3997-33	1	6	0
D3997-35	1	6	0
D3997-37	1	6	0
D3997-39	1	5	0
D3997-41	1	6	0
D3997-7	1	6	0
D3997-9	1	6	0
D4001-3	1	2	0
D4002-5	1	5	0
D4002-7	1	2	0
D4003-047	1	3	0
D4003-049	1	5	0
D4003-11	1	3	0
D4004-041	1	4	0
D4004-043	1	4	0
D4004-11	1	0	0
D4004-7	1	12	0
D4005-041	1	3	0
D4005-1	1	5	0
D4005-11	1	6	0
D4005-3	1	0	0
D4005-5	1	9	0
D4005-7	4	8	0
D4005-9	1	3	0
D4006-041	1	1	0
D4007-1	1	8	0
D4007-3	1	4	0
D4007-5	1	8	0
D4009-041	2	4	0
D4022-041	1	2	0
D4022-3	1	4	0
D4024-041	1	5	0

D4027-041	2	6	0
D4027-043	1	11	0
D4063-1	1	12	0
D4063-3	1	6	0
D8-603	1	5	0
MS21042-3	12	258	0
MS21042L08	2	2,804	0
MS21044N04	4	13	0
MS21059L08	4	229	0
MS21919-WDG6	1	7	0
MS21919-WDG8	2	52	0
MS21919-WDG9	1	126	0
MS24694-S50	3	252	0
MS29512-06	2	29	0
MS35058-23	1	4	0
MS35206-217	4	820	0
MS35207-264	6	52	0
MS35207-267	1	85	0
MTA106D	1	8	0
NAS1149D0332J	7	3,180	0
NAS1149D0963J	2	527	0
NAS1149F0363P	3	239	0
NAS1149F0463P	2	582	0
NAS1149FN416P	4	76	0
NAS1149FN832P	2	3,528	0
NAS1474A08	3	17	0
NAS43DD3-32N	1	16	0
03-09-1031	1	5	0
107-978	2	4	0
143-217	3	613	0
640903-1	2	100	0
D3997-3	1	7	1

110-Packaging

Allocated Container Detail

Qty	Container No	Location	Init
1	S058398	packaging1-1	_____
D4004-5	1	5	1

Allocated Container Detail

Qty 1	Container No S058378	Location packaging1-1	Init _____
D4008-043	1	6	1

Allocated Container Detail

Qty 1	Container No S058377	Location packaging1-1	Init _____
D4026-041	1	0	0
D5540-1	1	0	0
M24308/1-2F	1	7	0
M85049/48-1-2	1	2	0

Part Specifications

Specifications could not be found.

Plex 4/10/18 2:33 PM dart.lacelle.linda

Added items:

Qty -121	Qty -023	Qty -141	Part Number	Description
X			D130-794-121	AUXILIARY FUEL TANK (EC 130 SERIES)
1	X		D130-794-023	AUXILIARY FUEL TANK PROVISIONS (EC 130 SERIES)
1		X	D350-794-141	TANK ASSEMBLY
				ELECTRICAL PARTS
	1		D5473-047	FUEL GAUGE ASSEMBLY
		1*	D5473-063	FUEL SENDER ASSEMBLY - April 18
	2		D4290-27	CONNECTOR BACKSHELL 107-978 x 2 - 45/16
	(3)		D4290-31	SOCKET, CRIMP (WAS 5 NOW 3) 103-212 x 3 SHK!
	2		D4290-37	TERMINAL, PIDG RECEPTACLE 640903-1 x 2 SHK
	1		D4290-39	CONNECTOR, RECEPTACLE 03-09-1031 x 1
	1		D4290-47	CONNECTOR, BACKSHELL M25049/48-1-2
	1		D4290-55	CONNECTOR M24308/1-2F

* - items included as part of D4464-041 tank assembly

D5540-1 x 1

Removed items:

Qty -121	Qty -023	Qty -141	Part Number	Description
X			D130-794-121	AUXILIARY FUEL TANK (EC 130 SERIES)
1	X		D130-794-023	AUXILIARY FUEL TANK PROVISIONS (EC 130 SERIES)
1		X	D350-794-141	TANK ASSEMBLY
				ELECTRICAL PARTS
	1		D4026-041	FUEL GAUGE ASSEMBLY
		1*	D4025-5	FUEL SENDER ASSEMBLY
	1		D4290-15	RECEPTACLE 143-204
	1		D4290-17	PLUG 143-203
	2		D4290-31	SOCKET, CRIMP (WAS 5 NOW 3) REMOVE 2
	1		D4290-21	TERMINAL 31881
	1		D4290-23	RECEPTACLE 143-208
	1		D4290-33	PLUG HOUSING 143-207
	5		D4290-35	CRIMP PIN 143-219

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

SPECIFICATION CONTROL DRAWING

DART PART NUMBER	JOHN CAMERON AVIATION PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	ALTERNATE MANUFACTURER	ALTERNATE MANUFACTURER PART NUMBER	2ND ALTERNATE MANUFACTURER	2ND ALTERNATE MANUFACTURER PART NUMBER	MIL SPEC	SUGGESTED SUPPLIER
D4290-1	DSQ201	SWITCH	HONEYWELL	DSQ201						AIRBUS
D4290-3	DSB11WWWWN	SWITCH CAP	HONEYWELL	DSB11WWWWN						AIRBUS
D4290-5	GM2322	LAMP								AIRBUS
D4290-7	444-2556	SWITCH	C&K	7101SYZQE	TYCO ELECTRONICS	A101SYZQ04	TYCO ELECTRONICS	MTA106D		2ND ALTERNATE
D4290-9	HA21-205	FUSE	AIRBUS	HA21-2U5	SCHURTER	7010.3450	LITTELFUSE	021702.5HXP		AIRBUS
D4290-11	HA23-603	FUSE	AIRBUS	HA23-6U3	SCHURTER	7010.3510	LITTELFUSE	021706.3HXP		AIRBUS
D4290-13	EN3155016M20186	CONTACTS	AIRBUS	EN3155016M20186						AIRBUS
D4290-15	143-204 OR 973-1482	RECEPTACLE	MOLEX	03092011						
D4290-17	143-203 OR 973-1490	PLUG	MOLEX	03091011						
D4290-19	M81824/1-2	WIRE SPLICE (BLUE)			TYCO ELECTRONICS	D-436-37			M81824/1-2	
D4290-21	31881	TERMINAL (RED)	TYCO ELECTRONICS	31881	TYCO ELECTRONICS	36150	TYCO ELECTRONICS	36152		
D4290-23	143-208	RECEPTACLE	MOLEX	03091041						
D4290-25	107-943	CONNECTOR, PLUG	AB CONNECTORS	ABB06T10SL3PSN					MIL-C-5015	8
D4290-27	107-978 OR 105-5485	CONNECTOR BACKSHELL	AB CONNECTORS	SB10SL3CCA	AB CONNECTORS	ABB10SL30CN			MIL-C-5015	8
D4290-29	107-964	CONNECTOR RECEPTACLE	AB CONNECTORS	ABB00T10SL3SSNSB10SLRPG					MIL-C-5015	8
D4290-31	143-217 OR 977-3797	CRIMP SOCKET	MOLEX	02091118	MOLEX	02091119				
D4290-33	143-207	PLUG HOUSING	MOLEX	03092041						
D4290-35	143-219 OR 977-3800	CRIMP PIN	MOLEX	02092118						
D4290-37		TERMINAL, PIDG RECPT	TE	640903-1						
D4290-39		RECEPTACLE HOUSING	MOLEX	03-09-1031						
D4290-41		PLUG HOUSING	MOLEX	03-09-2032						
D4290-43		CONNECTOR, D-SUB 15-PIN	TE	M24308/4-2					MIL-C-24308	
D4290-45		CRIMP PIN	TE	M39029/64-369					MIL-C-32029	
D4290-47		BACKSHELL, D-SUB 15-PIN	ITT	M85049/48-1-2					MIL-C-85049	
D4290-49		CONNECTOR, D-SUB 9-PIN	TE	M24308/2-1					MIL-C-24308	
D4290-51		CRIMP SOCKET	TE	M39029/63-368					MIL-C-32029	
D4290-53		BACKSHELL, D-SUB 9-PIN	ITT	M85049/48-1-1					MIL-C-85049	
D4290-55		CONNECTOR, D-SUB 15-PIN	TE	M24308/1-2F					MIL-C-24308	

D4290-X ELECTRICAL PARTS

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: N/A
- 4) UNITS: N/A
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.6 USING DART P/N AND JCA P/N
- 7) WEIGHT: N/A
- 8) MIL SPEC MAY BE ORDERED BUT REQUIRES PHYSICAL VERIFICATION

RELEASE
2017-10-06
EN 17-687

APPROVED

C	ADDED PARTS -37 THRU -55, UPDATED SUGGESTED SUPPLIER & MANUFACTURER	WK	17.06.20
B	CORRECT P/N: ZN C7-1	HS	10.11.29
A	NEW ISSUE	HS	10.11.02
REV.	DESCRIPTION	BY	DATE
DESIGN	VS	DART AEROSPACE LTD	
DRAWN	WK	HAWKESBURY, ONTARIO, CANADA	
CHECKED	KB	DRAWING NO.	REV. C
MFG. APPR.	RA	DSC-D4290	SHEET 1 OF 1
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	ELECTRICAL PARTS	NTS
DATE	17.06.20	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMBINED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

D4002-11 D4005-041

~~D4005~~ remove?

Qty -121	Qty -023	Qty -141	Part Number	Description
X			D130-794-121	AUXILIARY FUEL TANK (EC 130 SERIES)
1	X		D130-794-023	AUXILIARY FUEL TANK PROVISIONS (EC 130 SERIES)
1		X	D350-794-141	TANK ASSEMBLY
		1	D4464-041	TANK ASSEMBLY
	1		D4022-041	FUEL TRANSFER PUMP ASSEMBLY ✓
		1*	D4023-3	FUEL CAP
	1		D4002-5	SUPPLY HOSE – FROM AUX TANK
	1		D4003-047	FUEL PUMP INLET PIPE ✓
	1		D4002-7	SUPPLY HOSE – PUMP TO MAIN TANK FILLER NECK
		1	D4002-041	DRAIN HOSE ASSEMBLY – FRONT
		1	D4002-043	DRAIN HOSE ASSEMBLY – REAR
		2	MS20822-3D	UNION
	1		AN832-6D	BULKHEAD UNION ✓
		1	AN816-6D	STRAIGHT FITTING
	2		AN924-6D	NUT (ALTERNATE AS5178D06) ✓
	2		NAS1149D0963J	WASHER
		1	MS20822-8D	90° FITTING
	2		AN815-6D	UNION ✓
	2		MS29512-06	ORING
	1		D4022-3	FUEL PUMP MOUNTING BRACKET ✓
	2		AN3-4A	BOLT ✓
	2		MS21042-3	NUT
	2		AN970-3	WASHER ✓
	1		D4008-043	FUEL PUMP SPLASH GUARD
	1		D4004-7	HOSE CLIP ✓
		2	D4009-041	BONDING BRAID
		1	D4008-041	AUXILIARY TANK FILLER SPLASH GUARD
	4		AN525-10R6	SCREW ✓
	1		D4001-3	BULKHEAD FITTING – MODIFIED
				VENT ASSEMBLY PARTS
	2		MS21919WDG-8	CLAMP
	1		D4003-11	VENT PIPE – TANK ✓
	1		D4027-041	VENT CLAMP ASSEMBLY
	1		D4003-049	VENT PIPE – TANK ✓
	1		D4027-043	VENT CLAMP ASSEMBLY ✓
	1		D4063-3	VENT HOSE ✓
	2		2000-8S	HOSE CLAMP ✓
	1		NAS43DD3-32N	SPACER
	1		MS35207-267	SCREW
	2		MS35207-264	SCREW
	3		NAS1149D0332J	WASHER
	3		MS21042-3	NUT
		3	TBA28B	CABLE TIE FASTENER
		1	TY25MX	TIE WRAP
	1		MS21919WDG-6	CLAMP (RUBBER REMOVED)
	1		D4009-041	BONDING BRAID ASSEMBLY
				RESTRAINT ASSEMBLY PARTS
	1		D4005-1	REAR RESTRAINT ANGLE/GUTTER ✓
	1		D4004-11	TOP STRAP ATTACH BRACKET ✓
	1		D4004-5	BOTTOM STRAP ATTACH BRACKET
	3		MS24694-S50	SCREW

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

D4004-3 remove?
D4006-041?
D8-603
remove? 143-203 (D4290-17)?
143-204 (D4290-15)?
143-219 (D4290-35)?

Qty -121	Qty -023	Qty -141	Part Number	Description
	3		MS21042-3	NUT
	3		NAS1149F0363P	WASHER
	1		D4024-041	ANCRA RESTRAINT STRAP ✓
	1		D4004-041	SIDE RESTRAINT ANGLE ✓
	1		D4007-3	TOP SUPPORT BRACKET ✓
	1		D4006-041	TANK TOP SUPPORT ASSEMBLY ✓
	2		AN4-5A	BOLT ✓
	2		NAS1149F0463P	WASHER
				LOCKER PREPARATION PARTS
	1		D4005-041	FORWARD FLOOR GUTTER ✓
	1		D4063-1	DRAIN HOSE ✓
	1		MS21919WDG-9	CLAMP
	1		MS35207-264	SCREW
	1		NAS1149D0332J	WASHER
	1		MS21042-3	NUT
	1		2000-6S	HOSE CLAMP ✓
	3		NAS1474-08	SEALED CAPTIVE ANCHOR NUT ✓
	1		D4005-11	FINISHING STRIP ✓
	4		MS21059-L08	ANCHOR NUT
	7		AN525-832R6	SCREW ✓
				ELECTRICAL PARTS
	1		D4290-9	6.3A ECF FUSE ✓ D1-205
	1		D4290-11	2.5A ECF FUSE
	1		D4290-1	SWITCH
	1		D4290-29	CONNECTOR RECEPTACLE ✓ 107-964 ✓
	2		D4290-27	CONNECTOR BACKSHELL ✓ 107-978 ✓
	1		D4290-25	CONNECTOR PLUG ✓ 107-943 ✓
		1*	D5473-063	FUEL QUANTITY SENDER
	4		MS35206-217	SCREW
	4		NAS1149FN416P	WASHER
	4		MS21044N04	NUT
	1		D4290-39	RECEPTACLE HOUSING
	1		D4290-55	CONNECTOR
	1		D4290-47	CONNECTOR BACKSHELL
	3		D4290-31	CRIMP SOCKET ✓ 143-217 ✓
	1		D4009-041	BONDING BRAID ASSEMBLY ✓
	1		D5473-047	FUEL GAUGE
	2		AN525-832R6	SCREW - GROUND STUD ✓
	2		NAS1149FN832P	WASHER
	2		MS21042-08	NUT
	1		D4290-7	GAUGE MASTER SWITCH
	1**		D4022-5	THERMAL SWITCH (125°C) - FARNELL
	2		D4290-37	TERMINAL, PIDG RECEPTACLE
				GENERAL
	1		AN5800-1	PLACARD HOLDER ✓
	1		AN929-6D	BLANK CAP ✓
		1*	D4968-1	CUSHION
				ADDITIONAL EC 130 PARTS
	3		MS35207-264	SCREW
	3		NAS1149D0332J	WASHER
	3		MS21042-3	NUT
	1		D4027-041	VENT CLAMP ASSEMBLY ✓

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐				
Date :	Step #:	QTY Effective :			MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By	
					Lead hand / Supervisor Approval Verification	
					QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐						

Qty -121	Qty -023	Qty -141	Part Number	Description
	1		D4004-043	SIDE RESTRAINT ANGLE AND TIE DOWN POINT ✓
	1		D4005-5	ANGLE ✓
	4		D4005-7	ANGLE ✓
	1		D4005-9	ANGLE ✓
	1		D4007-1	TOP SUPPORT BRACKET ✓
	1		D4005-3	FORWARD RESTRAINT BEAM ✓
	2		AN4-6A	BOLT ✓
	1		D4007-5	PACKER ✓
				PLACARDS
	1		D3997-3	FUEL QUANTITY – EC 130 B4 MODEL
		2*	D3997-5	AUX FUEL DRAIN
	1		D3997-7	AUX FUEL TRANSFER PUMP
	1		D3997-9	AUX FUEL
		1*	D3997-11	WEIGHT AND BALANCE ✓
	1		D3997-13	ON/OFF
	1		D3997-15	CHECK LOCKER TANK
		1*	D3997-17	STOWAGE PROHIBITED ✓
	1		D3997-19	TANK VENT ✓
	1		D3997-21	SWITCH FIXED
	1		D3997-23	AUX FUEL
	1		D3997-27	CONVERSION CHART – EC 130 B4 MODEL
		1*	D3997-29	DO NOT OVERFILL WARNING
	1		D3997-31	ON/OFF
	1		D3997-35	AUX FUEL GAUGE
	1		D3997-37	6.3 A CIRCUIT BREAKER ✓
	1		D3997-39	2.5A CIRCUIT BREAKER
	1		D3997-41	AUX TANK NOT FITTED
		1*	D3997-43	EARTH

* - items included as part of D4464-041 tank assembly

** - items included as part of D4022-041 pump assembly

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D5473-041

Job Sheet 175486



Part No: D5473-041

Job Qty: 3 ea

Part Name: Fuel Gauge Assembly



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 4/5/18

Job Tracking No:

Due Date: 4/6/18

Created By: Linda Lacelle

Type: SOLD

Description:

Note: D5473 REV:A IPP REV:A 17.10.24 NEW ISSUE DD VERF:DP

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	3 Ea		4/5/18	0.00	0.00			
100	Small Fab	3 pcs		4/6/18	0.00	0.75	Small Fab-2		
110	QC	3 pcs		4/6/18	0.00	0.00	QC5		
120	Packaging	3 pcs		4/6/18	0.00	0.00	Packaging3-2		
130	QC21-SA	3 Ea		4/6/18	0.00	0.00	QC21		

Part Op 100 - 1- ASSEMBLE AS PER DWG

Descriptions: 110 - 1- LOAD CALIBRATION FILE PER THE INSTRUCTION (SEE NOTE 8) AS PER DWG

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D5473-1	Fuel Gauge	3 Ea (1 ea)	90-Start up Operation	
MS28042-1A	Clamp - Instrument Mount	3 Ea (1 ea)	90-Start up Operation	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	D5473-1	3	3	0
	MS28042-1A	3	10	0

Part Specifications

Specifications could not be found.

Plex 4/5/18 12:04 PM dart.lacelle.linda

D5473-041 ?

7.3 D350-794-111 and D130-794-121 at CHG 007 and subsequent

Qty -111	Qty -013	Qty -121	Qty -023	Qty -141	Part Number	Superseded Part Numbers	Description
X					D350-794-111		AUXILIARY FUEL TANK (AS 350 SERIES)
1	X				D350-794-013		AUXILIARY FUEL TANK PROVISIONS (AS 350 SERIES)
		X			D130-794-121		AUXILIARY FUEL TANK (EC 130 SERIES)
		1	X		D130-794-023		AUXILIARY FUEL TANK PROVISIONS (EC 130 SERIES)
1		1		X	D350-794-141		TANK ASSEMBLY
				1	D4464-041		TANK ASSEMBLY
	1		1		D4022-041	A8150-B1-JCA	FUEL TRANSFER PUMP ASSEMBLY
				1*	D4023-3		FUEL CAP
	1		1		D4002-5	JCA-M47-2-13	SUPPLY HOSE - FROM AUX TANK
	1		1		D4003-047	JCA-M47-2-16	FUEL PUMP INLET PIPE
	1		1		D4002-7***	JCA-M47-2-25	SUPPLY HOSE - PUMP TO MAIN TANK FILLER NECK
				1	D4002-041	JCA-M47-1-13	DRAIN HOSE ASSEMBLY - FRONT
				1	D4002-043	JCA-M47-1-16	DRAIN HOSE ASSEMBLY - REAR
				2	MS20822-3D		UNION
	1		1		AN832-6D		BULKHEAD UNION
				1	AN816-6D		STRAIGHT FITTING
	2		2		AN924-6D		NUT (ALTERNATE AS5178D06)
	2		2		NAS1149D0963J		WASHER
				1	MS20822-8D		90° FITTING
	2		2		AN815-6D		UNION
	2		2		MS29512-08		ORING
	1		1		D4022-3	05-00021	FUEL PUMP MOUNTING BRACKET
	2		2		AN3-4A		BOLT
	2		2		MS21042-3		NUT
	2		2		AN970-3		WASHER
	1		1		D4008-043	JCA-M47-2-29	FUEL PUMP SPLASH GUARD
	1		1		D4004-7	N3	HOSE CLIP
				2	D4009-041	JCA-M47-4-01	BONDING BRAID
				1	D4008-041	JCA-M47-2-26	AUXILIARY TANK FILLER SPLASH GUARD
	4		4		AN525-10R6		SCREW
	1		1		D4001-3	AN832-6D-JCA	BULKHEAD FITTING - MODIFIED
							VENT ASSEMBLY PARTS
	2		2		MS21919WDG-8		CLAMP
	1		1		D4003-11	JCA-M47-2-21	VENT PIPE - TANK
			1		D4027-041	JCA-M47-2-20	VENT CLAMP ASSEMBLY
	1		1		D4003-049	JCA-M47-2-17	VENT PIPE - TANK
	1		1		D4027-043	JCA-M47-2-35	VENT CLAMP ASSEMBLY
	1		1		D4063-3	193-8	VENT HOSE
	2		2		2000-8S		HOSE CLAMP
	1		1		NAS43DD3-32N		SPACER
	1		1		MS35207-267		SCREW
	2		2		MS35207-264		SCREW
	3		3		NAS1149D0332J		WASHER
	3		3		MS21042-3		NUT
				3	TBA28B		CABLE TIE FASTENER
				1	TY25MX		TIE WRAP
	1		1		MS21919WDG-6		CLAMP (RUBBER REMOVED)
	1		1		D4009-041	JCA-M47-4-01	BONDING BRAID ASSEMBLY

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Revision: H

Date: 17.07.15

Qty -111	Qty -013	Qty -121	Qty -023	Qty -141	Part Number	Superseded Part Numbers	Description
							RESTRAINT ASSEMBLY PARTS
	1		1		D4005-1	JCA-M47-2-03	REAR RESTRAINT ANGLE/GUTTER
	1		1		D4004-11	JCA-M47-2-11	TOP STRAP ATTACH BRACKET
	1		1		D4004-5	JCA-M47-2-23	BOTTOM STRAP ATTACH BRACKET
	3		3		MS24894-S50		SCREW
	3		3		MS21042-3		NUT
	3		3		NAS1149F0363P		WASHER
	1		1		D4024-041	JCA/ASSO/MIN	ANCRA RESTRAINT STRAP
	1		1		D4004-041	JCA-M47-2-19	SIDE RESTRAINT ANGLE
	1		1		D4007-3	JCA-M47-2-18	TOP SUPPORT BRACKET
	1		1		D4006-041	JCA-M47-2-01	TANK TOP SUPPORT ASSEMBLY
	2		2		AN4-5A		BOLT
	2		2		NAS1149F0463P		WASHER
							LOCKER PREPARATION PARTS
	1		1		D4005-041	JCA-M47-2-22	FORWARD FLOOR GUTTER
	1		1		D4063-1	193-6	DRAIN HOSE
	1		1		MS21919WDG-9		CLAMP
	1		1		MS35207-264		SCREW
	1		1		NAS1149D0332J		WASHER
	1		1		MS21042-3		NUT
	1		1		2000-8S		HOSE CLAMP
	3		3		NAS1474-08		SEALED CAPTIVE ANCHOR NUT
	1		1		D4005-11	JCA-M47-2-12	FINISHING STRIP
	4		4		MS21059-L08		ANCHOR NUT
	7		7		AN525-832R6		SCREW
							ELECTRICAL PARTS
	1		1		D4290-9	D8-803 (ALT. HA23-6U3)	6.3A ECF FUSE
	1		1		D4290-11	D1-205 (ALT. HA21-2U5)	2.5A ECF FUSE
	1		1		D4290-1	MS35058-23	SWITCH
	1		1		D4290-29	107-964	CONNECTOR RECEPTACLE
	2		2		D4290-27	107-978 (ALT. 105-5485)	CONNECTOR BACKSHELL
	1		1		D4290-25	107-943	CONNECTOR PLUG
				1*	D5473-063		FUEL QUANTITY SENDER
	4		4		MS35206-217		SCREW
	4		4		NAS1149FN416P		WASHER
	4		4		MS21044N04		NUT
	1		1		D4290-39		RECEPTACLE HOUSING
	1		1		D4290-55		CONNECTOR
	1		1		D4290-47		CONNECTOR BACKSHELL
	3		3		D4290-31	143-217 (ALT. 977-3797)	CRIMP SOCKET
	1		1		D4009-041	JCA-M47-4-01	BONDING BRAID ASSEMBLY
	1				D5473-045		FUEL GAUGE
			1		D5473-047		FUEL GAUGE
	2		2		AN525-832R6		SCREW - GROUND STUD
	2		2		NAS1149FN832P		WASHER
	2		2		MS21042-08		NUT
	1		1		D4290-7	444-2556	GAUGE MASTER SWITCH

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Revision: H

Date: 17.07.15

Qty -111	Qty -013	Qty -121	Qty -023	Qty -141	Part Number	Superseded Part Numbers	Description
	1**		1**		D4022-5	3775628 (ALT. 100-6847)	THERMAL SWITCH (125°C) – FARNELL
	2		2		D4290-37		TERMINAL, PIDG RECEPTACLE
							GENERAL
	1		1		AN5800-1		PLACARD HOLDER
	1		1		AN929-6D		BLANK CAP
				1*	D4968-1		CUSHION
							ADDITIONAL EC 130 PARTS
			3		MS35207-284		SCREW
			3		NAS1149D0332J		WASHER
			3		MS21042-3		NUT
			1		D4027-041	JCA-M47-2-20	VENT CLAMP ASSEMBLY
			1		D4004-043	JCA-M47-2-04	SIDE RESTRAINT ANGLE AND TIE DOWN POINT
			1		D4005-5	JCA-M47-2-06	ANGLE
			4		D4005-7	JCA-M47-2-07	ANGLE
			1		D4005-9	JCA-M47-2-08	ANGLE
			1		D4007-1	JCA-M47-2-02	TOP SUPPORT BRACKET
			1		D4005-3	JCA-M47-2-05	FORWARD RESTRAINT BEAM
			2		AN4-6A		BOLT
			1		D4007-5	JCA-M47-2-24	PACKER
							PLACARDS
	1				D3997-1	JCA-M47-P1	FUEL QUANTITY – AS 350 MODELS
			1		D3997-3	JCA-M47-P2	FUEL QUANTITY – EC 130 B4 MODEL
				2*	D3997-5	JCA-M47-P3	AUX FUEL DRAIN
	1		1		D3997-7	JCA-M47-P4	AUX FUEL TRANSFER PUMP
	1		1		D3997-9	JCA-M47-P5	AUX FUEL
				1*	D3997-11	JCA-M47-P6	WEIGHT AND BALANCE
	1		1		D3997-13	JCA-M47-P7	ON/OFF
	1		1		D3997-15	JCA-M47-P8	CHECK LOCKER TANK
				1*	D3997-17	JCA-M47-P9	STOWAGE PROHIBITED
	1		1		D3997-19	JCA-M47-P10	TANK VENT
	1		1		D3997-21	JCA-M47-P13	SWITCH FIXED
	1		1		D3997-23	JCA-M47-P14	AUX FUEL
	1				D3997-25	JCA-M47-P15	CONVERSION CHART – AS 350 MODELS
			1		D3997-27	JCA-M47-P16	CONVERSION CHART – EC 130 B4 MODEL
				1*	D3997-29	JCA-M47-P17	DO NOT OVERFILL WARNING
	1		1		D3997-31	JCA-M47-P18	ON/OFF
	1		1		D3997-35	JCA-M47-P20	AUX FUEL GAUGE
	1		1		D3997-37	JCA-M47-P21	6.3 A CIRCUIT BREAKER
	1		1		D3997-39	JCA-M47-P22	2.5A CIRCUIT BREAKER
	1		1		D3997-41	JCA-M47-P23	AUX TANK NOT FITTED
				1*	D3997-43	JCA-M47-P24	EARTH

* - items included as part of D4464-041 tank assembly

** - items included as part of D4022-041 pump assembly

*** - D4002-7 hose (length = 20.3") is not a direct replacement for JCA-M47-2-25 hose (length = 21.3"),
however functionality remains the same

7.4 Fuel Gauge & Sender Upgrade

Qty -501	Qty -503	Qty -505	Qty -507	Part Number	Description
X				D350-794-501	D350-794-011 AUXILIARY FUEL TANK FUEL GAUGE UPGRADE (AS 350 SERIES)
	X			D130-794-503	D130-794-021 AUXILIARY FUEL TANK FUEL GAUGE UPGRADE (EC 130 SERIES)
		X		D350-794-505	D350-794-111 AUXILIARY FUEL TANK FUEL GAUGE UPGRADE (AS 350 SERIES)
			X	D130-794-507	D130-794-121 AUXILIARY FUEL TANK FUEL GAUGE UPGRADE (EC 130 SERIES)
1				D5473-041	FUEL GAUGE ASSEMBLY
	1			D5473-043	FUEL GAUGE ASSEMBLY
		1		D5473-045	FUEL GAUGE ASSEMBLY
			1	D5473-047	FUEL GAUGE ASSEMBLY
1	1			D5473-061	FUEL SENDER ASSEMBLY
		1	1	D5473-063	FUEL SENDER ASSEMBLY
3	3	3	3	D4290-31	CRIMP SOCKET
1	1	1	1	D4290-39	RECEPTACLE HOUSING
1	1	1	1	D4290-47	CONNECTOR BACKSHELL
1	1	1	1	D4290-55	CONNECTOR
1	1	1	1	D5558-1	BEZEL ADAPTER
1	1	1	1	D5558-3	INSTRUMENT CLAMP
2	2	2	2	MS35214-31	SCREW
2	2	2	2	MS21044N06	NUT

SPECIFICATION CONTROL DRAWING

DART PART NUMBER	JOHN CAMERON AVIATION PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	ALTERNATE MANUFACTURER	ALTERNATE MANUFACTURER PART NUMBER	2ND ALTERNATE MANUFACTURER	2ND ALTERNATE MANUFACTURER PART NUMBER	MIL SPEC	SUGGESTED SUPPLIER
D4290-1	DSQ201	SWITCH	HONEYWELL	DSQ201						AIRBUS
D4290-3	DSB11WWWWN	SWITCH CAP	HONEYWELL	DSB11WWWWN						AIRBUS
D4290-5	GM2322	LAMP								AIRBUS
D4290-7	444-2556	SWITCH	C&K	7101SYZQE	TYCO ELECTRONICS	A101SYZQ04	TYCO ELECTRONICS	MTA106D		2ND ALTERNATE
D4290-9	HA21-205	FUSE	AIRBUS	HA21-2U5	SCHURTER	7010.3450	LITTELFUSE	021702.5HXP		AIRBUS
D4290-11	HA23-603	FUSE	AIRBUS	HA23-6U3	SCHURTER	7010.3510	LITTELFUSE	021706.3HXP		AIRBUS
D4290-13	EN3155016M20186	CONTACTS	AIRBUS	EN3155016M20186						AIRBUS
D4290-15	143-204 OR 973-1482	RECEPTACLE	MOLEX	03092011						
D4290-17	143-203 OR 973-1490	PLUG	MOLEX	03091011						
D4290-19	M81824/1-2	WIRE SPLICE (BLUE)			TYCO ELECTRONICS	D-436-37			M81824/1-2	
D4290-21	31881	TERMINAL (RED)	TYCO ELECTRONICS	31881	TYCO ELECTRONICS	36150	TYCO ELECTRONICS	36152		
D4290-23	143-208	RECEPTACLE	MOLEX	03091041						
D4290-25	107-943	CONNECTOR, PLUG	AB CONNECTORS	ABB06T10SL3PSN					MIL-C-5015	8
D4290-27	107-978 OR 105-5465	CONNECTOR BACKSHELL	AB CONNECTORS	SB10SL3CCA	AB CONNECTORS	ABB10SL30CN			MIL-C-5015	8
D4290-29	107-984	CONNECTOR RECEPTACLE	AB CONNECTORS	ABB00T10SL3SSNSB10SLRPG					MIL-C-5015	8
D4290-31	143-217 OR 977-3797	CRIMP SOCKET	MOLEX	02091118	MOLEX	02091119				
D4290-33	143-207	PLUG HOUSING	MOLEX	03092041						
D4290-35	143-219 OR 977-3800	CRIMP PIN	MOLEX	02092118						
D4290-37		TERMINAL, PIDG RECPT	TE	640903-1						
D4290-39		RECEPTACLE HOUSING	MOLEX	03-09-1031						
D4290-41		PLUG HOUSING	MOLEX	03-09-2032						
D4290-43		CONNECTOR, D-SUB 15-PIN	TE	M24308/4-2					MIL-C-24308	
D4290-45		CRIMP PIN	TE	M39029/64-369					MIL-C-32029	
D4290-47		BACKSHELL, D-SUB 15-PIN	ITT	M85049/48-1-2					MIL-C-85049	
D4290-49		CONNECTOR, D-SUB 9-PIN	TE	M24308/2-1					MIL-C-24308	
D4290-51		CRIMP SOCKET	TE	M39029/63-368					MIL-C-32029	
D4290-53		BACKSHELL, D-SUB 9-PIN	ITT	M85049/48-1-1					MIL-C-85049	
D4290-55		CONNECTOR, D-SUB 15-PIN	TE	M24308/1-2F					MIL-C-24308	

D4290-X ELECTRICAL PARTS

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: N/A
- 4) UNITS: N/A
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.6 USING DART P/N AND JCA P/N
- 7) WEIGHT: N/A
- 8) MIL SPEC MAY BE ORDERED BUT REQUIRES PHYSICAL VERIFICATION

RELEASE
2017-10-06
EN 17-687

APPROVED

C	ADDED PARTS -37 THRU -55, UPDATED SUGGESTED SUPPLIER & MANUFACTURER	WK	17.06.20
B	CORRECT P/N; ZN C7-1	HS	10.11.29
A	NEW ISSUE	BY	10.11.02
REV.	DESCRIPTION	BY	DATE
DESIGN	VS		
DRAWN	WK		
CHECKED	KB		
MFG. APPR.	RA		
APPROVED	HS		
DE APPR.	DS		
DATE	17.06.20		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO.
DSC-D4290

TITLE
ELECTRICAL PARTS

REV. C
SHEET 1 OF 1

SCALE
NTS

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REV. C

3.17 D5473-04X Fuel Gauge Setup and Error Resolution (AS 350 and EC 130)

3.17.1 Dart Aerospace calibrates the D5473-041/-043/-045/-047 Fuel Quantity Gauge and D5473-061/-063 Fuel Sender for its intended auxiliary tank model prior to customer release. Calibration by the installer is not required.

3.17.2 For any technical issues please contact Dart Technical Support:

Dart Aerospace
1270 Aberdeen Street
Hawkesbury, Ontario, Canada
K6A 1K7
Tel: 613-676-0992
Email: support.on@dartaero.com
www.dartaerospace.com

3.18 Fuel Gauge and Sender Upgrade (AS 350 and EC 130)

3.18.1 The D5473-041/-043/-045/-047 Fuel Gauge may be installed in place of the D4026-041 Fuel Gauge being replaced, as outlined in these instructions using the DXXX-794-501/-503/-505/-507 Upgrade kit as applicable.

3.18.2 With reference to drawing D350-794-901, remove the D4026-041 Fuel Gauge assembly and the following electrical components and associated hardware;

- Wires:
 - o 22A20
 - o 22B20
 - o 23A20
 - o 24B20
 - o 27A20
- Components:
 - o D4025-1/-5 – Fuel Sender
 - o D4026-041 – Fuel Gauge
 - o D4290-15 – Receptacle
 - o D4290-17 – Plug
 - o D4290-23 – Receptacle
 - o D4290-33 – Plug

3.18.3 With reference to drawing D350-794-902, install the D5473-041/-043/-045/-047 Fuel Gauge assembly and the following electrical components and associated hardware;

- Wires:
 - o 794-Q22A20
 - o 794-Q23A20
 - o 794-Q24B20
 - o 794-Q27A20 (optional)
 - o 794-Q28A20
 - o 794-Q29A20
- Components:
 - o D5473-041/-043/-045/-047 – Fuel Gauge
 - o D5473-061/-063 – Fuel Sender
 - o D4290-39 – Receptacle
 - o D4290-31 – Socket
 - o D4290-55 – Connector
 - o D4290-47 – Backshell

- 3.18.4 When installing the D5473-041/-043/-045/-047 Fuel Gauge in the existing D4026-041 Fuel Gauge location, due to the size of the hole in the instrument panel, an adapter, P/N D5558-1, and clamp, P/N D5558-3, are required. Reference Figure 17 for installation of the D5473-041/-043/-045/-047 Fuel Gauge in place of the D4026-041 Fuel Gauge.

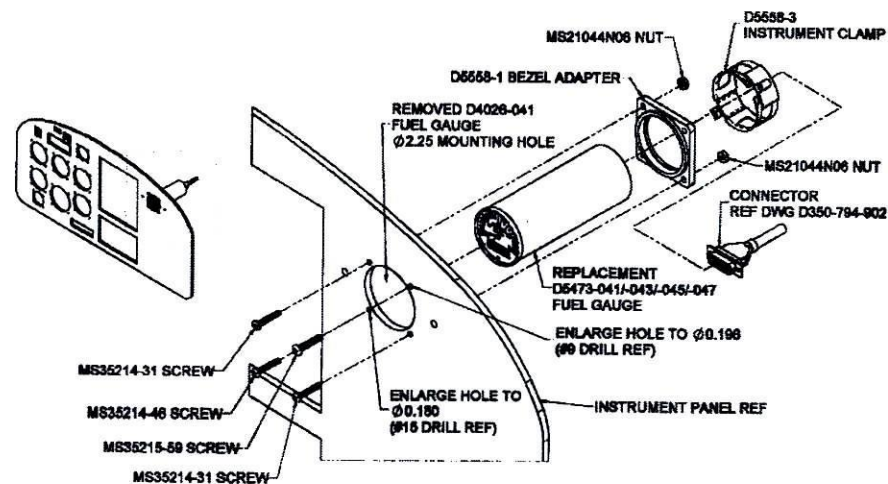


Figure 17 – Replacement of D4026-041 Fuel Gauge

- 3.18.5 The D5473-061/-063 Fuel Sender is a direct replacement for the D4025-1/-5 Fuel Sender. Disconnect and remove the auxiliary fuel tank from the aircraft per ICA-D350-794. Remove installation hardware, remove D4025-1/-5 Fuel Sender assembly, and replace with appropriate D5473-061/-063 Fuel Sender assembly, per Section 7.4. Install using removed installation hardware. Connect D5473-061/-063 Fuel Sender to the D4290-39 receptacle connector, per drawing D350-794-902 and Figure 18.

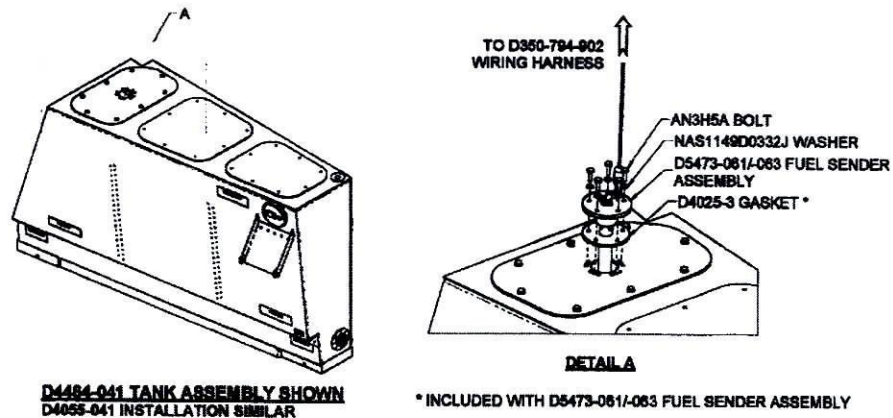


Figure 18 – Replacement of D4025-1/-5 Fuel Sender

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Revision: H

Date: 17.07.15

Linda Lacelle

From: Wade Kennedy
Sent: Monday, April 9, 2018 12:49 PM
To: Linda Lacelle; Chantal Lavoie
Subject: RE: EMEA Order from Q2 to pull in Q1

Hi Linda,

The customer can change the fuel sender themselves, there are instructions how to do it in the newest ICA under the "Gauge and Sender Upgrade".

Due to part obsolescence of the connector ends of the D4009-041 grounding wire, substitute part #'s were added to the drawing. The new part #'s are interchangeable with the old part #'s. This is more of a paperwork issue.

Cheers
Wade

From: Linda Lacelle
Sent: April 9, 2018 10:33 AM
To: Wade Kennedy <wkennedy@dartaero.com>; Chantal Lavoie <clavoie@dartaero.com>
Subject: RE: EMEA Order from Q2 to pull in Q1

Wade-
Ok, so this is a big problem, unless the customer can change out the fuel sender themselves??
What has changed on the ends of D4009-041 ??

Chantal-
Please order D5540-1 x 10
And do you know when the D5473-063 will arrive?

L

From: Wade Kennedy
Sent: Monday, April 9, 2018 12:26 PM
To: Linda Lacelle <llacelle@dartaero.com>
Subject: RE: EMEA Order from Q2 to pull in Q1

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Linda

Parts changed:

PART #	DESCRIPTION	CHANGE
D4464-041	TANK ASSEMBLY	D4025-5 Fuel Sender replaced with D5473-063 Fuel Sender Assembly
D4022-041	FUEL TRANSFER PUMP ASSEMBLY	Red plug replaced with D5540 Breather Vent REF DSI9786
D4009-041	GROUND STRAP	Changed the ends of the strap

Please let me know if there is anything else I can assist with

Wade

From: Linda Lacelle

Sent: April 9, 2018 9:51 AM

To: Wade Kennedy <wkennedy@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

Thx Wade, and yes, if you could get me a list of parts changed also plzzzzzzzzzzzzzzzzzzzz

From: Wade Kennedy

Sent: Monday, April 9, 2018 11:37 AM

To: Linda Lacelle <llacelle@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

Hi Linda

Please see attached list. Please note that I only show new parts and removed parts, this list does not include any parts that have been changed. Please let me know if you need that as well.

Wade

From: Linda Lacelle

Sent: April 9, 2018 8:38 AM

To: Wade Kennedy <wkennedy@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

Importance: High

Hi Wade,

I really tried to go through this whole list and compare it to the existing list, I just can't do it...is there ANY possible way you can let me know what changed (what has been added – P/N / Qty and what has been removed?? I need to ship this today!!

Thx

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

*QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

L

From: Wade Kennedy
Sent: Thursday, April 5, 2018 3:35 PM
To: Linda Lacelle <llacelle@dartaero.com>
Subject: RE: EMEA Order from Q2 to pull in Q1

Linda
Please see attached, let me know if there is anything else I can do.
Wade

From: Linda Lacelle
Sent: April 5, 2018 1:23 PM
To: Wade Kennedy <wkennedy@dartaero.com>
Subject: RE: EMEA Order from Q2 to pull in Q1

Yes – a list of parts required for the D130-794-121 - PLZZZZZZZZZZ

From: Wade Kennedy
Sent: Thursday, April 5, 2018 3:14 PM
To: Linda Lacelle <llacelle@dartaero.com>; Lewis Brooks <lbrooks@dartaero.com>; Adrien Dillard <adillard@dartaero.com>; David Shepherd <dshepherd@dartaero.com>
Cc: Kinga Lysiak <klysiak@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Robert Aboud <raboud@dartaero.com>; Harvey Siemens <hsiemens@dartaero.com>
Subject: RE: EMEA Order from Q2 to pull in Q1

Hi Linda,
Is there anything you require from me to get this moving?
Regards
Wade

From: Linda Lacelle
Sent: April 5, 2018 10:37 AM
To: Lewis Brooks <lbrooks@dartaero.com>; Adrien Dillard <adillard@dartaero.com>; David Shepherd <dshepherd@dartaero.com>; Wade Kennedy <wkennedy@dartaero.com>
Cc: Kinga Lysiak <klysiak@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Robert Aboud <raboud@dartaero.com>; Harvey Siemens <hsiemens@dartaero.com>

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Subject: RE: EMEA Order from Q2 to pull in Q1
Importance: High

We JUST rec'd TCCA approval...will be receiving the ECN tomorrow, so could ship early next week...

Now the questions are:

David – can we ship without the ECN and just markup the w/o accordingly?

Lewis/Adrien – can we ship everything and follow up with the fuel gauge, so the customer can get started? Of course, we will pick up the freight on the fuel gauge. We seem to be missing a couple of parts from this new IIN.

L

From: Lewis Brooks
Sent: Thursday, April 5, 2018 4:58 AM
To: Linda Lacelle <llacelle@dartaero.com>; Harvey Siemens <hsiemens@dartaero.com>; Adrien Dillard <adillard@dartaero.com>
Cc: Kinga Lysiak <klysiak@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Robert Aboud <raboud@dartaero.com>
Subject: RE: EMEA Order from Q2 to pull in Q1

Hi Harvey,

Any news from TCCA on the gauge?

Best regards,

Lewis Brooks
Account Manager - EMEA



DART AEROSPACE
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Berkshire, UK
SL6 1BU
T +44 (0) 1628 421 519
M +44 (0) 7447 811 810
E lbrooks@dartaero.com
www.dartaerospace.com

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

*QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								



From: Linda Lacelle

Sent: Tuesday, March 20, 2018 4:10 PM

To: Harvey Siemens <hsiemens@dartaero.com>; Adrien Dillard <adillard@dartaero.com>

Cc: Kinga Lysiak <klysiak@dartaero.com>; Lewis Brooks <lbrooks@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Robert Aboud <raboud@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

Thx Harvey, and yes, we would like to ship March 29...

L

From: Harvey Siemens

Sent: Tuesday, March 20, 2018 10:14 AM

To: Linda Lacelle <llacelle@dartaero.com>; Adrien Dillard <adillard@dartaero.com>

Cc: Kinga Lysiak <klysiak@dartaero.com>; Lewis Brooks <lbrooks@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Robert Aboud <raboud@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

Linda,

This is an "upgrade" because the old gauges are no longer available. Once we have TCCA approval, it is automatically EASA approved – if I understand the question correctly. Trying to confirm when/if we will have approval in time to deliver on the 29th.

HS

From: Linda Lacelle

Sent: Tuesday, March 20, 2018 7:43 AM

To: Adrien Dillard <adillard@dartaero.com>; Harvey Siemens <hsiemens@dartaero.com>

Cc: Kinga Lysiak <klysiak@dartaero.com>; Lewis Brooks <lbrooks@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Robert Aboud <raboud@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

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Thanks for your reply.

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I am asking because customer will need EASA, not TCCA.

Thanks

Adrien

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Sent: 20 March 2018 13:03

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Cc: Kinga Lysiak <klysiak@dartaero.com>; Lewis Brooks <lbrooks@dartaero.com>

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Thx

L

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Sent: Saturday, March 17, 2018 4:52 AM

To: Robert Aboud <raboud@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Linda Lacelle <llacelle@dartaero.com>

Cc: Kinga Lysiak <klysiak@dartaero.com>; Lewis Brooks <lbrooks@dartaero.com>

Subject: EMEA Order from Q2 to pull in Q1

Importance: High

Dear Team

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Can you please check the following PLEX order and let us know ASAP if this feasible: 2465 ?

Thanks a lot

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	Iberica		Brooks,			with		794-	Fuel					
CHELI02	SA	Distributor	Lewis	Customer	1800001	HBY	2465	121	Tank	Hawkesbury	02/04/2018	02/04/2018	02/04/2018	

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Linda Lacelle

From: Wade Kennedy
Sent: Monday, April 9, 2018 12:49 PM
To: Linda Lacelle; Chantal Lavoie
Subject: RE: EMEA Order from Q2 to pull in Q1

Hi Linda,

The customer can change the fuel sender themselves, there are instructions how to do it in the newest ICA under the "Gauge and Sender Upgrade".

Due to part obsolescence of the connector ends of the D4009-041 grounding wire, substitute part #'s were added to the drawing. The new part #'s are interchangeable with the old part #'s. This is more of a paperwork issue.

Cheers
Wade

From: Linda Lacelle
Sent: April 9, 2018 10:33 AM
To: Wade Kennedy <wkennedy@dartaero.com>; Chantal Lavoie <clavoie@dartaero.com>
Subject: RE: EMEA Order from Q2 to pull in Q1

Wade-
Ok, so this is a big problem, unless the customer can change out the fuel sender themselves??
What has changed on the ends of D4009-041 ??

Chantal-
Please order D5540-1 x 10
And do you know when the D5473-063 will arrive?

L

From: Wade Kennedy
Sent: Monday, April 9, 2018 12:26 PM
To: Linda Lacelle <llacelle@dartaero.com>
Subject: RE: EMEA Order from Q2 to pull in Q1

Linda

Parts changed:

PART #	DESCRIPTION	CHANGE
D4464-041	TANK ASSEMBLY	D4025-5 Fuel Sender replaced with D5473-063 Fuel Sender Assembly
D4022-041	FUEL TRANSFER PUMP ASSEMBLY	Red plug replaced with D5540 Breather Vent REF DSI9786
D4009-041	GROUND STRAP	Changed the ends of the strap

Please let me know if there is anything else I can assist with

Wade

From: Linda Lacelle

Sent: April 9, 2018 9:51 AM

To: Wade Kennedy <wkennedy@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

Thx Wade, and yes, if you could get me a list of parts changed also plzzzzzzzzzzzzzzzzzzzz

From: Wade Kennedy

Sent: Monday, April 9, 2018 11:37 AM

To: Linda Lacelle <llacelle@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

Hi Linda

Please see attached list. Please note that I only show new parts and removed parts, this list does not include any parts that have been changed. Please let me know if you need that as well.

Wade

From: Linda Lacelle

Sent: April 9, 2018 8:38 AM

To: Wade Kennedy <wkennedy@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

Importance: High

Hi Wade,

I really tried to go through this whole list and compare it to the existing list, I just can't do it...is there ANY possible way you can let me know what changed (what has been added – P/N / Qty and what has been removed?? I need to ship this today!!

- Thx

L

From: Wade Kennedy
Sent: Thursday, April 5, 2018 3:35 PM
To: Linda Lacelle <llacelle@dartaero.com>
Subject: RE: EMEA Order from Q2 to pull in Q1

Linda
Please see attached, let me know if there is anything else I can do.
Wade

From: Linda Lacelle
Sent: April 5, 2018 1:23 PM
To: Wade Kennedy <wkennedy@dartaero.com>
Subject: RE: EMEA Order from Q2 to pull in Q1

Yes – a list of parts required for the D130-794-121 - PLZZZZZZZZZZ

From: Wade Kennedy
Sent: Thursday, April 5, 2018 3:14 PM
To: Linda Lacelle <llacelle@dartaero.com>; Lewis Brooks <lbrooks@dartaero.com>; Adrien Dillard <adillard@dartaero.com>; David Shepherd <dshepherd@dartaero.com>
Cc: Kinga Lysiak <klysiak@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Robert Aboud <raboud@dartaero.com>; Harvey Siemens <hsiemens@dartaero.com>
Subject: RE: EMEA Order from Q2 to pull in Q1

Hi Linda,
Is there anything you require from me to get this moving?
Regards
Wade

From: Linda Lacelle
Sent: April 5, 2018 10:37 AM
To: Lewis Brooks <lbrooks@dartaero.com>; Adrien Dillard <adillard@dartaero.com>; David Shepherd <dshepherd@dartaero.com>; Wade Kennedy <wkennedy@dartaero.com>
Cc: Kinga Lysiak <klysiak@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Robert Aboud <raboud@dartaero.com>; Harvey Siemens <hsiemens@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

Importance: High

We JUST rec'd TCCA approval...will be receiving the ECN tomorrow, so could ship early next week...

Now the questions are:

David – can we ship without the ECN and just markup the w/o accordingly?

Lewis/Adrien – can we ship everything and follow up with the fuel gauge, so the customer can get started? Of course, we will pick up the freight on the fuel gauge. We seem to be missing a couple of parts from this new IIN.

L

From: Lewis Brooks

Sent: Thursday, April 5, 2018 4:58 AM

To: Linda Lacelle <llacelle@dartaero.com>; Harvey Siemens <hsiemens@dartaero.com>; Adrien Dillard <adillard@dartaero.com>

Cc: Kinga Lysiak <klysiak@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Robert Aboud <raboud@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

Hi Harvey,

Any news from TCCA on the gauge?

Best regards,

Lewis Brooks

Account Manager - EMEA



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Berkshire, UK

SL6 1BU

T +44 (0) 1628 421 519

M +44 (0) 7447 811 810

E lbrooks@dartaero.com

www.dartaerospace.com



From: Linda Lacelle

Sent: Tuesday, March 20, 2018 4:10 PM

To: Harvey Siemens <hsiemens@dartaero.com>; Adrien Dillard <adillard@dartaero.com>

Cc: Kinga Lysiak <klysiak@dartaero.com>; Lewis Brooks <lbrooks@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Robert Aboud <raboud@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

Thx Harvey, and yes, we would like to ship March 29...

L

From: Harvey Siemens

Sent: Tuesday, March 20, 2018 10:14 AM

To: Linda Lacelle <llacelle@dartaero.com>; Adrien Dillard <adillard@dartaero.com>

Cc: Kinga Lysiak <klysiak@dartaero.com>; Lewis Brooks <lbrooks@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Robert Aboud <raboud@dartaero.com>

Subject: RE: EMEA Order from Q2 to pull in Q1

Linda,

This is an "upgrade" because the old gauges are no longer available. Once we have TCCA approval, it is automatically EASA approved – if I understand the question correctly. Trying to confirm when/if we will have approval in time to deliver on the 29th.

HS

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Cc: Kinga Lysiak <klysiak@dartaero.com>; Lewis Brooks <lbrooks@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Robert Aboud <raboud@dartaero.com>

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SPECIFICATION CONTROL DRAWING

DART PART NUMBER	JOHN CAMERON AVIATION PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	ALTERNATE MANUFACTURER	ALTERNATE MANUFACTURER PART NUMBER	2ND ALTERNATE MANUFACTURER	2ND ALTERNATE MANUFACTURER PART NUMBER	MIL SPEC	SUGGESTED SUPPLIER
D4290-1	DSQ201	SWITCH	HONEYWELL	DSQ201						AIRBUS
D4290-3	DSB11WWWWN	SWITCH CAP	HONEYWELL	DSB11WWWWN						AIRBUS
D4290-5	GM2322	LAMP								AIRBUS
D4290-7	444-2556	SWITCH	C&K	7101SYZQE	TYCO ELECTRONICS	A101SYZQ04	TYCO ELECTRONICS	MTA106D		2ND ALTERNATE
D4290-9	HA21-205	FUSE	AIRBUS	HA21-2U5	SCHURTER	7010.3450	LITTELFUSE	021702.5HXP		AIRBUS
D4290-11	HA23-603	FUSE	AIRBUS	HA23-6U3	SCHURTER	7010.3510	LITTELFUSE	021706.3HXP		AIRBUS
D4290-13	EN3155016M20186	CONTACTS	AIRBUS	EN3155016M20186						AIRBUS
D4290-15	143-204 OR 973-1482	RECEPTACLE	MOLEX	03092011						
D4290-17	143-203 OR 973-1490	PLUG	MOLEX	03091011						
D4290-19	M81824/1-2	WIRE SPLICE (BLUE)			TYCO ELECTRONICS	D-436-37			M81824/1-2	
D4290-21	31881	TERMINAL (RED)	TYCO ELECTRONICS	31881	TYCO ELECTRONICS	36150	TYCO ELECTRONICS	36152		
D4290-23	143-208	RECEPTACLE	MOLEX	03091041						
D4290-25	107-943	CONNECTOR, PLUG	AB CONNECTORS	ABB06T10SL3PSN					MIL-C-5015	8
D4290-27	107-978 OR 105-5465	CONNECTOR BACKSHELL	AB CONNECTORS	SB10SL3CCA	AB CONNECTORS	ABB10SL30CN			MIL-C-5015	8
D4290-29	107-964	CONNECTOR RECEPTACLE	AB CONNECTORS	ABB00T10SL3SSNSB10SLRPG					MIL-C-5015	8
D4290-31	143-217 OR 977-3797	CRIMP SOCKET	MOLEX	02091118	MOLEX	02091119				
D4290-33	143-207	PLUG HOUSING	MOLEX	03092041						
D4290-35	143-219 OR 977-3800	CRIMP PIN	MOLEX	02092118						
D4290-37		TERMINAL, PIDG RECPT	TE	640903-1						
D4290-39		RECEPTACLE HOUSING	MOLEX	03-09-1031						
D4290-41		PLUG HOUSING	MOLEX	03-09-2032						
D4290-43		CONNECTOR, D-SUB 15-PIN	TE	M24308/4-2					MIL-C-24308	
D4290-45		CRIMP PIN	TE	M39029/64-369					MIL-C-32029	
D4290-47		BACKSHELL, D-SUB 15-PIN	ITT	M85049/48-1-2					MIL-C-85049	
D4290-49		CONNECTOR, D-SUB 9-PIN	TE	M24308/2-1					MIL-C-24308	
D4290-51		CRIMP SOCKET	TE	M39029/63-368					MIL-C-32029	
D4290-53		BACKSHELL, D-SUB 9-PIN	ITT	M85049/48-1-1					MIL-C-85049	
D4290-55		CONNECTOR, D-SUB 15-PIN	TE	M24308/1-2F					MIL-C-24308	

D4290-X ELECTRICAL PARTS

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: N/A
- 4) UNITS: N/A
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.6 USING DART P/N AND JCA P/N
- 7) WEIGHT: N/A
- 8) MIL SPEC MAY BE ORDERED BUT REQUIRES PHYSICAL VERIFICATION

RELEASE
2017-10-06
EN 17-68

APPROVED

C	ADDED PARTS -37 THRU -55, UPDATED SUGGESTED SUPPLIER & MANUFACTURER	WK	17.06.20
B	CORRECT P/N; ZN C7-1	HS	10.11.28
A	NEW ISSUE	HS	10.11.02
REV.	DESCRIPTION	BY	DATE
DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	WK		
CHECKED	KB	DRAWING NO. DSC-D4290	
MFG. APPR.	RA		
APPROVED	HS	TITLE ELECTRICAL PARTS	
DE APPR.	DS		
DATE	17.06.20	REV. C SHEET 1 OF 1 SCALE NTS	

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								